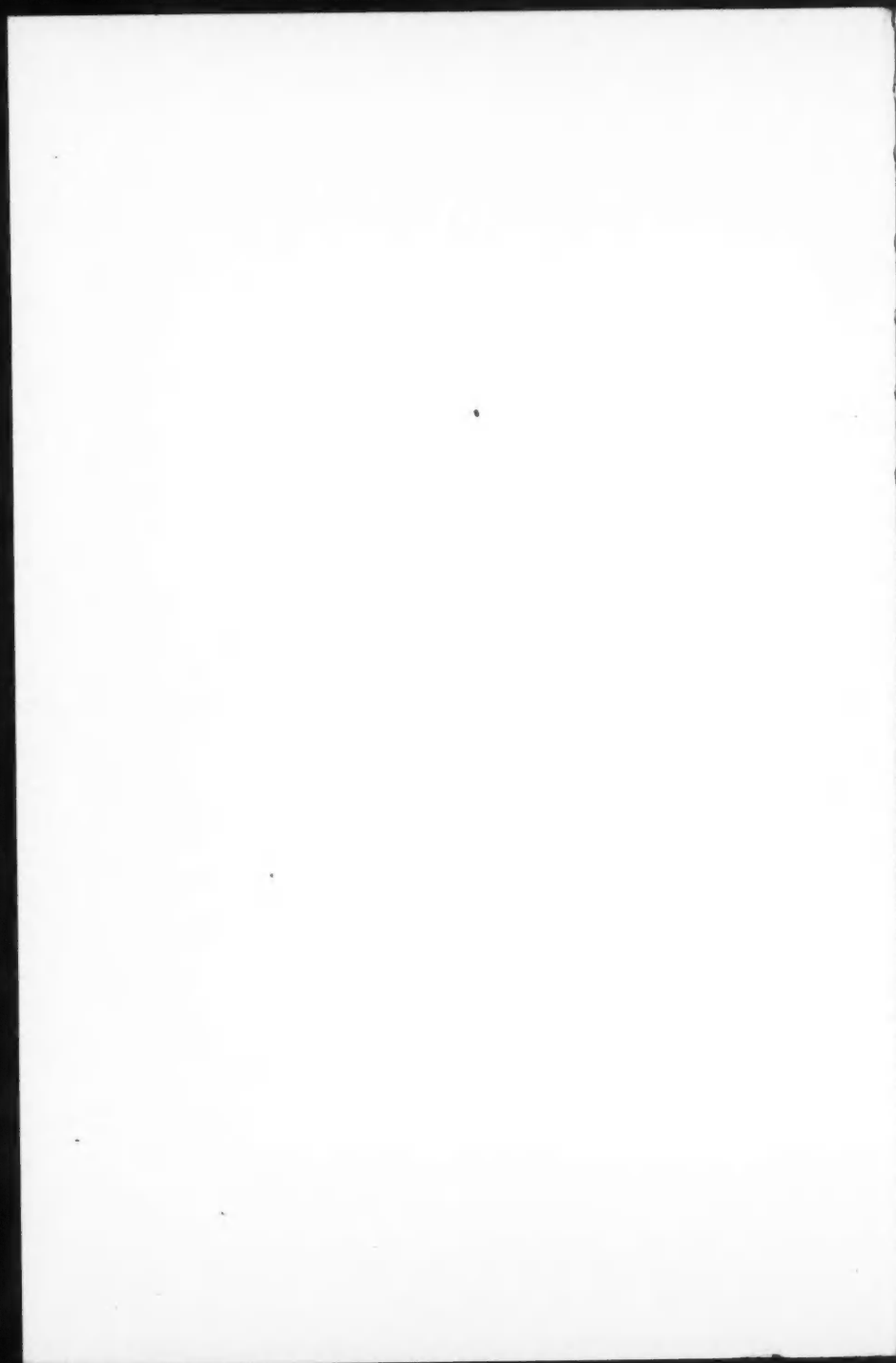




AUTOMOBILE FACTS AND FIGURES

AUTOMOBILE
MANUFACTURERS
ASSOCIATION

1936
EDITION



Automobile Facts and Figures

1936 EDITION
(Figures for Calendar Year 1935)

✓ AR 628.101 A92 1936_{0.2}

Motor industry continues to lead the industrial recovery. In nineteen hundred thirty-five factory sales increased 44%, retail sales in the United States gained 45% and foreign sales advanced 19% compared with the preceding year. Domestic and foreign sales during the first five months of nineteen hundred thirty-six reflect additional progress.

Motor truck transportation, as evidenced by registration figures, attained a new high record during the past year.

Employment in manufacturing, distribution, servicing, and highway transportation approximately equals the peak year 1929.

The use of motor vehicles throughout the world exceeded all previous years.

The total tax burden carried by highway users mounted to unprecedented heights, exceeding one billion two hundred fifty million dollars. Every year since the beginning of motor transportation, with the single exception of the year 1921, has seen higher aggregate taxes than the preceding year.

New data on highway safety work; motor vehicles and street mileage by cities having a population of more than 100,000; survey of communities dependent entirely on highway haulage of all necessities; and other subjects, have been included for the first time in this edition.

Extracts from this book may be used with or without credit.

AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.

366 Madison Avenue, at 46th Street, New York, N. Y.

Detroit
General Motors Bldg.

Washington, D. C.
Transportation Bldg.

Cable Address: Automakers

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AUTOMOTIVE HISTORY
COLLECTION

Automobile Manufacturers Association, Inc.

366 MADISON AVE., AT 46TH ST., NEW YORK CITY, U. S. A.

Detroit, Mich.
General Motors Building

Washington, D. C.
Transportation Building

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<i>First Vice-President</i>	ALFRED H. SWAYNE.....	General Motors Corporation
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<i>Manager, Statistical Department</i>	O. P. PEARSON

(A list of members and committees is given on pages 89-92)

1935

in the Automobile Industry

en

Factory Sales (United States and Canada) 4,119,811

Passenger cars, 3,387,806 Trucks 732,005

**Wholesale Value, Motor Vehicles, Parts
and Tires** \$3,319,497,973

Cars (United States and Canada) \$1,788,635,180

Trucks (United States and Canada) . . . 399,211,522

Parts sold by motor vehicle manu-
facturers (United States and Canada) . . 282,105,271

Replacement parts, accessories, tires
and service equipment 849,546,000

Foreign Sales of American Motor Vehicles 507,718

Registration (United States) 26,221,052

Cars 22,565,347 Trucks 3,655,705

**Capital Invested (net tangible assets)
in Car and Truck Factories** \$1,273,734,000

Employment and Wages in U. S.

Number of wage earners in motor
vehicle and parts factories 439,000

Wages in motor vehicle and parts
factories \$657,332,000

Number employed directly and in-
directly in highway transportation . . . 6,017,000

Number of Motor Vehicle Dealers in U. S. 41,201

Factory Sales and Wholesale Value

(United States and Canada shown from 1921 to date)

PASSENGER CARS			MOTOR TRUCKS		TOTAL	
Year	Number	Value	Number†	Value‡	Number	Value
1900..	4,192	\$4,899,443	.....	.....	4,192	\$4,899,443
1901..	7,000	8,183,000	.....	.....	7,000	8,183,000
1902..	9,000	10,395,000	.....	.....	9,000	10,395,000
1903..	11,235	13,000,000	.....	.....	11,235	13,000,000
1904..	22,419	23,682,492	411	\$946,947	22,830	24,629,439
1905..	24,550	39,030,000	450	970,000	25,000	40,000,000
1906..	33,500	61,850,000	500	1,050,000	34,000	62,900,000
1907..	43,300	92,040,000	700	1,360,000	44,000	93,400,000
1908..	63,500	135,250,000	1,500	2,550,000	65,000	137,800,000
1909..	127,731	159,918,506	3,255	5,230,023	130,986	165,148,529
1910..	181,000	215,340,000	6,000	9,660,000	187,000	225,000,000
1911..	199,319	225,000,000	10,681	21,000,000	210,000	246,000,000
1912..	356,000	335,000,000	22,000	43,000,000	378,000	378,000,000
1913..	461,500	399,902,000	23,500	44,000,000	485,000	443,902,000
1914..	543,679	413,859,379	25,375	45,098,464	569,054	458,957,843
1915..	895,930	575,978,000	74,000	125,800,000	969,930	701,778,000
1916..	1,525,578	921,378,000	92,130	161,000,000	1,617,708	1,082,378,000
1917..	1,745,792	1,053,505,781	128,157	220,982,668	1,873,949	1,274,488,449
1918..	943,436	801,937,925	227,250	434,168,992	1,170,686	1,236,106,917
1919..	1,657,652	1,461,785,925	275,943	423,326,621	1,933,595	1,885,112,546
1920..	1,905,560	1,809,170,963	321,789	423,249,410	2,227,349	2,232,420,373
†1921..	1,518,061	1,091,752,452	164,304	169,914,098	1,682,365	1,261,666,550
†1922..	2,369,089	1,561,740,645	277,140	231,282,063	2,646,229	1,793,022,708
†1923..	3,753,945	2,274,554,488	426,505	317,478,940	4,180,450	2,592,033,428
†1924..	3,303,646	2,040,706,519	434,140	326,706,496	3,737,786	2,367,413,015
†1925..	3,870,744	2,544,528,799	557,056	470,634,763	4,427,800	3,015,163,562
†1926..	3,948,843	2,746,064,722	556,818	468,752,769	4,505,661	3,214,817,491
†1927..	3,083,360	2,265,633,102	497,020	435,072,641	3,580,380	2,700,705,743
†1928..	4,012,158	2,703,753,500	588,983	459,045,380	4,601,141	3,162,798,880
†1929..	4,794,898	2,981,141,842	826,817	595,504,039	5,621,715	3,576,645,881
†1930..	2,910,187	1,720,652,104	599,991	405,949,915	3,510,178	2,126,602,019
†1931..	2,038,183	1,153,907,947	434,176	272,748,305	2,472,359	1,426,656,252
†1932..	1,186,185	650,781,297	245,282	142,264,003	1,431,467	793,045,300
†1933..	1,627,361	795,304,780	358,548	192,131,509	1,985,909	987,436,289
†1934..	2,270,566	1,204,376,351	599,397	332,913,985	2,869,963	1,537,290,336
†1935..	3,387,806	1,788,635,180	732,005	399,211,522	4,119,811	2,187,846,702

Foreign assemblies of parts made in U. S. but assembled abroad are included in this table.

†Figures for 1921 to date are "factory sales" for U. S. plants and "production" for Canadian plants.

See page 9 for Canadian production and wholesale value.

‡A substantial part of the trucks reported comprises chassis only, without body; hence the value of bodies for these chassis is not included.

Annual Percentage Change in Factory Sales

Year	Passenger Cars	Motors Trucks	Total	Year	Passenger Cars	Motors Trucks	Total
1924..	-12.0%	1.8%	-10.6%	1930..	-39.3%	-27.4%	-37.6%
1925..	17.2%	28.3%	18.5%	1931..	-29.9%	-27.6%	-29.6%
1926..	2.0%	-0.04%	1.8%	1932..	-41.8%	-43.5%	-42.1%
1927..	-21.9%	-10.7%	-20.5%	1933..	37.2%	46.2%	38.7%
1928..	30.1%	18.5%	28.5%	1934..	39.5%	67.2%	44.5%
1929..	19.5%	40.4%	22.2%	1935..	49.1%	22.2%	43.6%

(-) means decrease.

Monthly Motor Vehicle Factory Sales

United States and Canada

(Figures from U. S. Census Bureau,* and Dominion Bureau of Statistics)

Passenger Car Factory Sales

Year	1929	1930	1931	1932	1933	1934	1935
Jan...	364,773	242,672	142,869	101,915	112,754	117,700	235,806
Feb...	431,755	293,036	187,948	98,604	93,153	193,875	287,142
Mar...	546,489	348,087	241,727	106,003	103,396	291,546	377,374
April...	571,956	393,804	300,960	126,597	156,712	303,806	407,721
May...	541,310	382,619	282,096	165,025	188,675	290,268	322,485
June...	469,260	298,130	215,979	166,646	213,602	272,090	306,300
July...	439,598	230,761	187,324	101,478	196,587	231,501	283,715
Aug...	452,857	190,864	158,851	79,073	196,333	190,825	186,133
Sept...	375,046	182,049	111,336	66,489	161,734	129,251	59,499
Oct...	328,305	117,014	59,176	37,468	107,593	86,128	220,113
Nov...	176,629	104,668	49,996	49,201	43,868	50,072	347,830
Dec...	96,920	126,483	99,921	87,710	52,954	113,504	353,688
Total.	4,794,898	2,910,187	2,038,183	1,186,209	1,627,361	2,270,566	3,387,806

Motor Truck Factory Sales

Year	1929	1930	1931	1932	1933	1934	1935
Jan...	57,765	40,938	35,475	21,160	19,429	44,870	64,529
Feb...	65,950	52,925	41,863	24,291	15,592	44,952	63,204
Mar...	79,587	69,031	47,671	21,274	18,508	61,068	70,520
April...	91,855	74,477	53,138	28,539	27,975	67,532	69,338
May...	94,940	62,080	47,805	27,491	35,132	60,348	59,324
June...	98,164	51,466	41,496	23,572	43,448	48,292	65,785
July...	78,703	44,960	35,386	15,137	39,310	44,546	61,582
Aug...	59,985	43,296	32,890	15,319	42,601	53,890	58,942
Sept...	54,683	46,557	31,876	20,003	35,874	46,335	33,229
Oct...	66,235	41,928	22,406	14,157	30,772	49,643	60,203
Nov...	50,368	37,493	20,118	12,560	19,106	35,107	60,720
Dec...	28,582	34,840	24,052	21,782	30,801	42,814	64,629
Total.	826,817	599,991	434,176	245,285	358,548	599,397	732,005

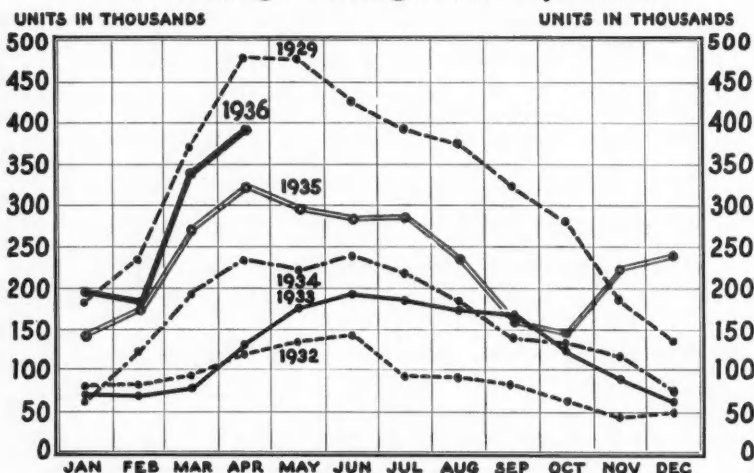
Passenger Car and Truck Factory Sales

Year	1929	1930	1931	1932	1933	1934	1935
Jan...	422,538	283,610	178,344	123,075	132,183	162,570	300,335
Feb...	497,705	345,961	229,811	122,895	108,745	238,827	350,346
Mar...	626,076	417,118	289,398	127,277	121,904	352,614	447,894
Apr...	663,811	468,281	354,098	155,136	184,687	371,338	477,059
May...	636,250	444,699	329,901	192,516	223,807	350,616	381,809
June...	567,424	349,596	257,475	190,218	257,050	320,382	372,085
July...	518,301	275,721	222,710	116,615	235,897	276,047	345,297
Aug...	512,842	234,160	191,741	94,392	238,934	244,715	245,075
Sept...	429,729	228,606	143,212	86,492	197,608	175,586	92,728
Oct...	394,540	158,942	81,582	51,625	138,365	135,771	280,316
Nov...	226,997	142,161	70,114	61,761	62,974	85,179	408,550
Dec...	125,502	161,323	123,973	109,472	83,755	156,318	418,317
Total.	5,621,715	3,510,178	2,472,359	1,431,494	1,985,909	2,869,963	4,119,811

*Includes overseas assemblies of motor vehicles of American make.

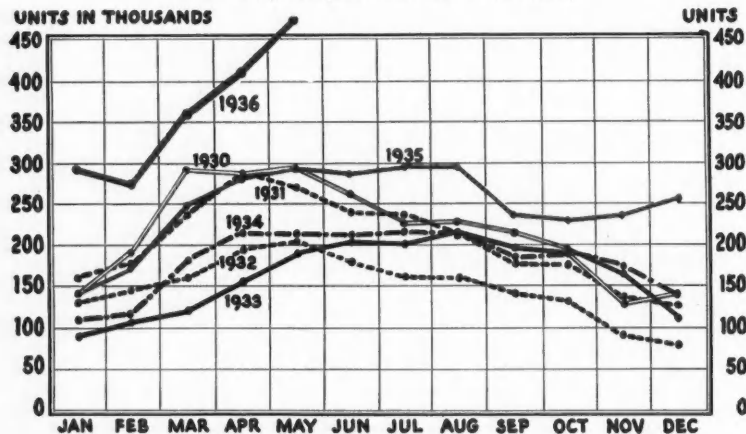
Consumer Demand Follows Seasonal Pattern

New Passenger Car Registrations by Months



Used Passenger Car Sales by Months

(The figures are based on reports from manufacturers whose dealers in 1935 sold 68% of all new passenger cars in the United States)



Sales of used cars follow the same seasonal trend as new car sales, rising sharply to a peak in April or May and falling off during the remainder of the year.

New Motor Vehicle Registrations

(Please credit R. L. Polk & Company when reproducing figures)

New Passenger Car Registrations in U. S.

	1929	1930	1931	1932	1933	1934	1935
Jan...	219,760	180,094	126,776	87,493	79,821	61,242	136,635
Feb...	235,590	211,645	134,133	82,813	69,464	94,887	170,615
Mar...	377,802	298,824	200,841	92,192	78,741	173,287	261,477
April...	481,675	357,064	265,732	121,093	119,909	223,050	319,650
May...	454,132	345,031	247,727	131,282	160,242	219,225	293,199
June...	386,398	260,861	201,911	148,752	174,190	223,864	280,360
July...	432,503	254,098	194,322	104,188	185,660	229,006	285,178
Aug...	376,886	203,737	155,744	93,457	178,661	193,198	233,851
Sept...	304,452	175,286	124,903	81,893	157,976	146,931	157,098
Oct...	288,697	150,219	102,659	63,195	136,326	140,937	148,389
Nov...	183,756	93,066	75,829	44,358	94,180	107,574	220,262
Dec...	138,555	96,054	77,564	45,683	58,624	75,356	237,194
Total.	3,880,206	2,625,979	1,908,141	1,096,399	1,493,794	1,888,557	2,743,908

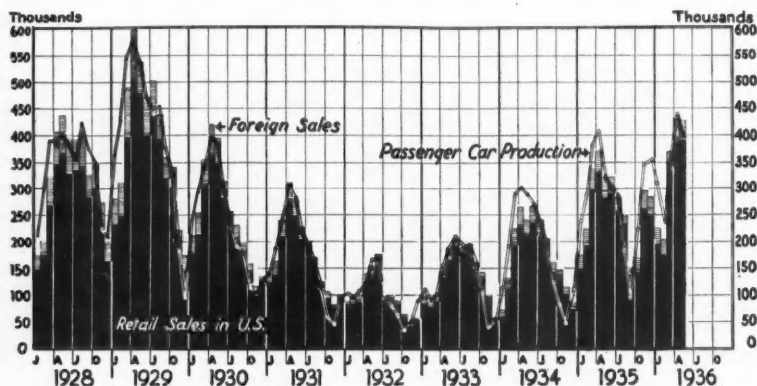
New Truck Registrations in U. S.

	1929	1930	1931	1932	1933	1934	1935
Jan...	29,900	30,236	24,415	14,776	11,709	22,903	34,759
Feb...	32,637	31,880	23,466	14,558	9,707	24,476	34,797
Mar...	46,368	42,199	30,609	16,874	9,934	33,884	41,511
April...	56,299	47,029	36,848	17,784	17,301	38,882	46,785
May...	52,874	43,286	33,496	18,696	20,925	39,831	47,968
June...	45,114	33,531	28,496	17,876	23,254	34,768	48,243
July...	57,943	39,904	30,102	14,731	30,642	37,490	51,243
Aug...	52,557	33,787	27,070	15,081	28,799	40,790	50,355
Sept...	46,560	33,933	25,967	14,967	31,269	37,225	41,390
Oct...	49,899	34,237	24,685	15,156	28,058	40,878	37,439
Nov...	33,631	22,012	15,553	10,392	18,691	28,689	36,935
Dec...	23,275	18,665	13,177	9,522	15,580	24,070	39,258
Total.	527,057	410,699	313,884	180,413	245,869	403,886	510,683

Total New Passenger Car and Truck Registrations

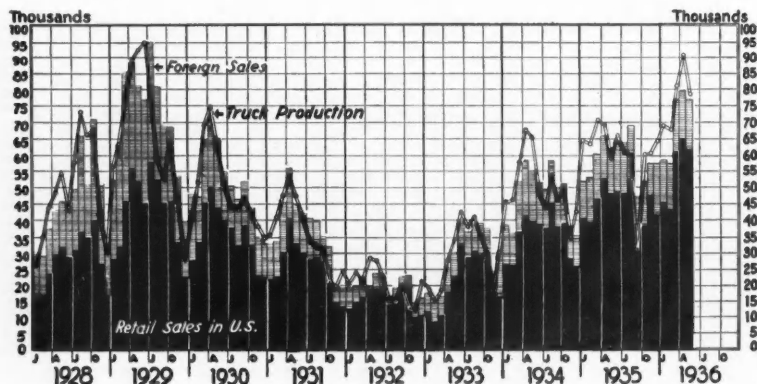
	1929	1930	1931	1932	1933	1934	1935
Jan...	249,660	210,330	151,191	102,269	91,530	84,145	171,394
Feb...	268,227	243,525	157,599	97,371	79,171	119,363	205,412
Mar...	424,170	341,023	231,450	109,066	88,675	207,171	302,988
April...	537,974	404,093	302,580	138,877	137,210	261,932	366,435
May...	507,006	388,317	281,223	149,978	181,167	259,056	341,167
June...	431,512	294,392	230,407	166,628	197,444	258,632	328,603
July...	490,446	294,002	224,424	118,919	216,302	266,496	336,421
Aug...	429,443	237,524	182,814	108,538	207,460	233,988	284,206
Sept...	351,012	209,219	150,870	96,860	189,245	184,156	198,488
Oct...	338,596	184,456	127,344	78,351	164,384	181,815	185,828
Nov...	217,387	115,078	91,382	54,750	112,871	136,263	257,197
Dec...	161,830	114,719	90,741	55,205	74,204	99,426	276,452
Total.	4,407,263	3,036,678	2,222,025	1,276,812	1,739,663	2,292,443	3,254,591

Passenger Car Output and Sales Increasing



The passenger car production curve represents the combined factory sales from plants located in the United States and the production of plants located in Canada. The solid portions of the vertical bars represent monthly retail sales in the United States, and the cross-hatched, top portion of the bars shows sales of American cars in foreign markets, including U. S. exports, foreign assemblies of parts produced in U. S., and Canadian production.

Truck Production and Sales Trend Up



The truck production curve includes factory sales from plants located in the United States, production of plants located in Canada and assemblies abroad of parts produced in the United States. The cross-hatched portion of the vertical bars represents U. S. exports, foreign assemblies of parts produced in U. S., and Canadian production.

Canadian Automobile Industry

(Figures from Annual Report of Dominion Bureau of Statistics, Ottawa, Canada)

Number and Wholesale Value of Canadian Production

Year	PASSENGER CARS		TRUCKS		TOTAL	
	Number	Value	Number	Value	Number	Value
1921...	61,098	\$53,561,415	5,148	\$3,843,288	66,246	\$57,404,703
1922...	92,838	67,226,654	8,169	5,232,405	101,007	72,459,059
1923...	127,976	78,282,372	19,226	8,941,011	147,202	87,223,383
1924...	114,537	70,609,960	18,043	8,125,916	132,580	78,735,876
1925...	135,573	86,158,773	26,397	12,234,486	161,970	98,393,259
1926...	166,887	106,000,203	37,840	16,629,334	204,727	122,629,537
1927...	146,421	100,962,211	32,633	14,942,017	179,054	115,904,228
1928...	197,848	127,263,877	44,206	21,913,122	242,054	149,176,999
1929...	203,307	134,023,280	59,318	29,474,395	262,625	163,497,675
1930...	121,337	75,253,581	32,035	16,513,225	153,372	91,766,806
1931...	65,072	42,634,173	17,487	10,330,763	82,559	52,964,936
1932...	50,694	32,490,829	10,095	6,070,667	60,789	38,560,796
1933...	53,849	32,568,268	12,003	6,062,195	65,852	38,630,463
1934...	92,647	57,260,156	24,205	12,770,318	116,852	70,030,474
1935...	135,562	79,209,276	37,315	19,803,771	172,877	99,013,047

Motor Vehicle Manufacturing Industry

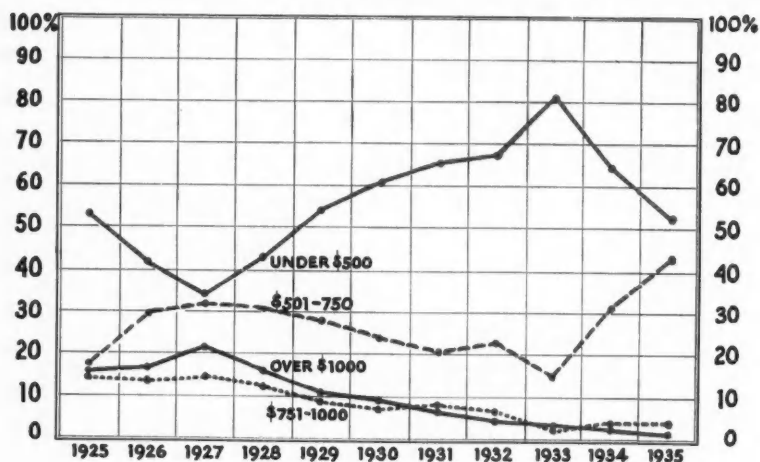
Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Exports Cars and Trucks	Imports Cars and Trucks
1925.....	11	\$74,678,451	10,301	\$17,249,270	74,151	14,632
1926.....	11	82,791,968	11,905	19,650,804	74,324	28,544
1927.....	11	88,831,668	11,063	18,862,846	57,414	36,630
1928.....	14	97,056,328	16,749	29,548,114	79,388	47,408
1929.....	17	98,378,301	16,435	26,864,808	101,711	44,724
1930.....	16	90,671,678	12,541	19,473,782	44,553	23,233
1931.....	26	59,638,057	9,545	13,113,192	13,813	8,738
1932.....	25	49,641,777	8,810	11,435,741	12,534	1,449
1933.....	22	40,000,559	8,134	8,557,331	20,403	1,781
1934.....	21	34,520,938	9,674	12,938,933	43,368	2,905
1935.....	20	40,765,548	13,095	18,797,599	64,330	4,111

Automobile Parts and Accessories Industry

Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Wholesale Value of Products	Value of Exports	Value of Imports*
1925...	68	\$ 9,023,906	2,029	\$2,684,766	\$11,234,828	\$6,372,728	\$20,690,989
1926...	77	10,501,725	2,770	3,680,021	13,914,965	5,485,486	27,465,642
1927...	78	13,065,269	2,996	3,846,185	14,862,616	3,434,465	31,852,100
1928...	77	16,343,956	3,509	4,756,409	17,007,157	2,152,166	48,839,955
1929...	65	19,401,890	4,708	6,711,434	31,965,078	2,350,232	44,772,091
1930...	57	16,654,683	3,580	4,527,179	18,401,587	1,587,571	23,358,763
1931...	73	15,617,986	2,899	3,429,841	12,600,256	829,838	14,442,570
1932...	76	17,332,257	3,832	3,874,618	12,161,456	1,846,033	11,588,190
1933...	83	16,975,182	3,776	3,569,483	13,001,185	1,337,302	10,836,590
1934...	80	19,393,687	5,172	5,498,360	24,378,762	2,415,222	19,474,767
1935...	Not available at time of going to press					2,925,667	24,517,832

* Does not include automobile engines

95% of Cars Sell Under \$750 Wholesale



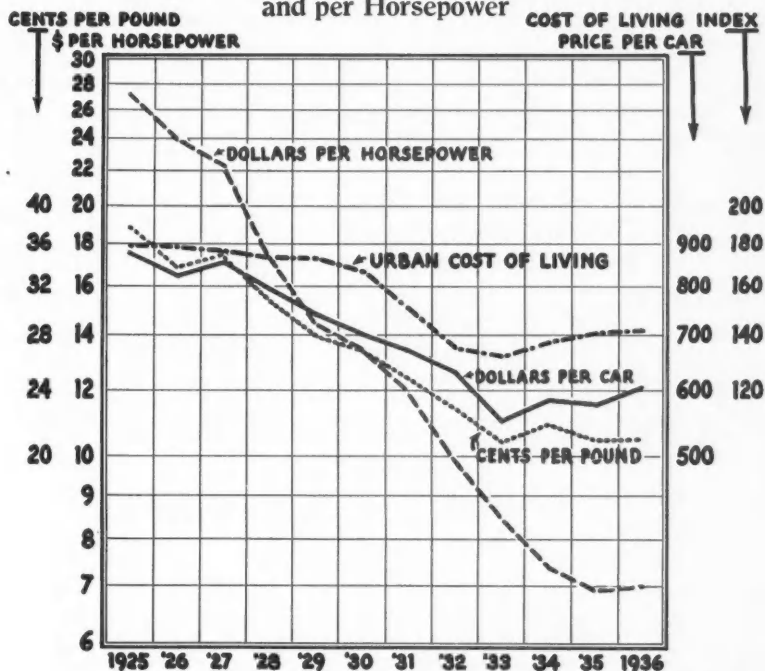
Factory Sales by Wholesale Price Classes

United States and Canada

	Under \$500	\$501- 750	\$751- 1000	\$1001- 1500	\$1501- 2000	\$2001- 3000	Over \$3000	Total
1925.....	2,019,708	660,520	545,981	462,243	103,119	54,814	24,359	3,870,744
Percent.....	52.2	17.1	14.1	12.0	2.6	1.4	.6	100%
1926.....	1,633,775	1,149,301	500,508	476,675	94,915	73,738	19,931	3,948,843
Percent.....	41.4	29.1	12.7	12.1	2.4	1.8	.5	100%
1927.....	1,039,216	957,987	446,663	466,902	107,425	50,064	15,103	3,083,360
Percent.....	33.7	31.1	14.5	15.2	3.5	1.6	.4	100%
1928.....	1,698,603	1,219,266	462,452	456,117	108,448	55,304	11,968	4,012,158
Percent.....	42.3	30.4	11.5	11.4	2.7	1.4	.3	100%
1929.....	2,585,414	1,317,116	387,835	347,340	98,086	47,587	11,520	4,794,898
Percent.....	53.9	27.5	8.1	7.3	2.0	1.0	.2	100%
1930.....	1,754,747	680,352	204,450	179,180	55,351	27,266	8,841	2,910,187
Percent.....	60.3	23.4	7.1	6.2	1.9	.9	.2	100%
1931.....	1,328,294	413,929	162,954	80,687	33,846	12,714	5,759	2,038,183
Percent.....	65.2	20.3	8.0	3.9	1.7	.6	.3	100%
1932.....	794,164	260,831	74,610	36,670	8,699	8,679	2,532	1,186,185
Percent.....	67.0	22.0	6.3	3.1	.7	.7	.2	100%
1933.....	1,316,341	237,099	32,610	20,125	10,409	8,725	2,052	1,627,361
Percent.....	80.9	14.6	2.0	1.25	.65	.5	.1	100%
1934.....	1,443,357	715,989	66,223	27,576	8,391	6,879	2,151	2,270,566
Percent.....	63.5	31.6	2.9	1.2	.4	.3	.1	100%
1935.....	1,787,171	1,444,529	110,813	28,736	8,716	5,413	2,428	3,387,806
Percent.....	52.7	42.6	3.3	.9	.27	.16	.07	100%

Automobile Prices Greatly Reduced

Continuous Trend Downward Since 1925, Measured in Terms of Weighted Average per Car, or Prices per Pound and per Horsepower

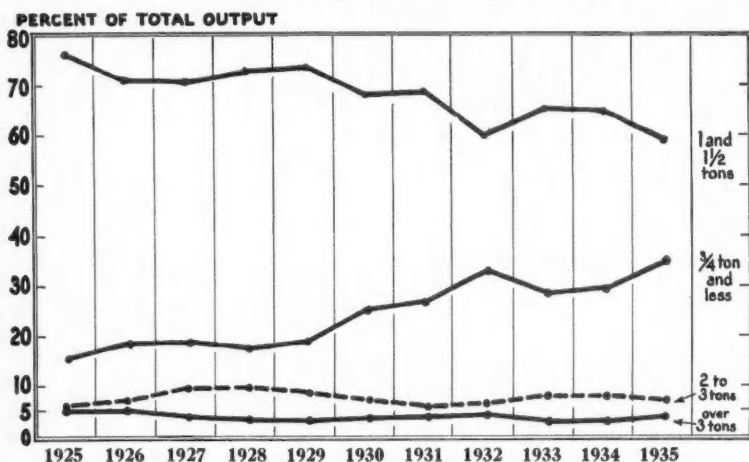


	Per Car	PRICE Per Pound	Per Horsepower	Urban Cost of Living (1913=100)
1925	\$887	.38	\$27.7	179.0
1926	831	.34	24.4	178.5
1927	861	.35	22.6	176.4
1928	803	.31	17.7	173.1
1929	743	.28	14.7	173.2
1930	703	.27	13.6	166.9
1931	676	.25	12.1	151.1
1932	637	.23	10.0	136.2
1933	555	.21	8.5	132.2
1934	585	.22	7.4	137.1
1935 ¹	580	.21	6.9	140.4
1936 ²	603	.21	7.0	141.7

Notes—Cost of living index is the revised index for 32 cities published by the U. S. Bureau of Labor Statistics. The automobile prices are F.O.B. weighted averages of the least expensive closed four or five passenger model of each make.

¹—First 9 months. ²—Nov. 1935 through Feb. 1936.

Trucks Three-quarter Ton and Less Capacity Gaining Larger Share



Truck Factory Sales by Capacities

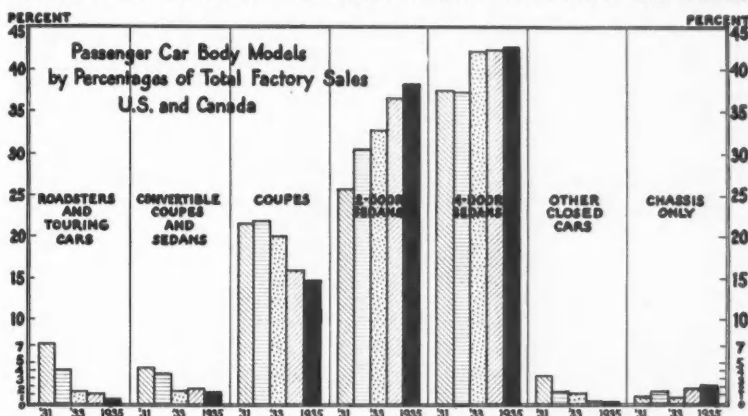
UNITED STATES AND CANADA

	1929	1930	1931	1932	1933	1934	1935
3/4 ton or less.....	141,859	144,869	109,220	79,127	99,028	172,089	249,957
1 ton and less than 1 1/2	78,786	31,028	4,899	1,618	893	2,341	2,259
1 1/2 ton and less than 2	523,691	370,541	289,418	144,113	228,238	376,475	420,597
2 ton and less than 2 1/2	28,416	16,477	8,516	7,620	15,866	25,995	28,950
2 1/2 ton, less than 3 1/2	33,530	22,887	11,516	6,006	7,728	11,136	10,465
3 1/2 ton and less than 5	8,643	6,412	4,532	2,689	2,859	4,752	3,612
5 ton.....	2,384	1,094	906	1,407	580	1,219	
Over 5 ton & spec'l types	9,508	6,683	5,169	2,705	3,356	5,390	16,165
Total.....	826,817	599,991	434,176	245,285	358,548	599,397	732,005

Truck Factory Sales by Capacities—Per Cent

	1929	1930	1931	1932	1933	1934	1935
3/4 ton or less.....	17.1	24.0	25.2	32.3	27.6	28.6	34.1
1 ton and less than 1 1/2	9.5	5.2	1.1	.6	.2	.4	.3
1 1/2 ton and less than 2	63.4	61.7	66.6	58.8	63.7	62.9	57.5
2 ton and less than 2 1/2	3.4	2.7	2.0	3.1	4.4	4.3	4.0
2 1/2 ton and less than 3 1/2	4.1	3.8	2.7	2.4	2.2	1.9	1.4
3 1/2 ton and less than 5	1.0	1.0	1.0	1.1	.8	.8	.5
5 ton.....	.3	.2	.2	.6	.2	.2	
Over 5 ton & spec'l types	1.2	1.4	1.2	1.1	.9	.9	2.2
Total.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Trend Toward 4-Door and 2-Door Sedans



Passenger Car Factory Sales by Body Types United States and Canada

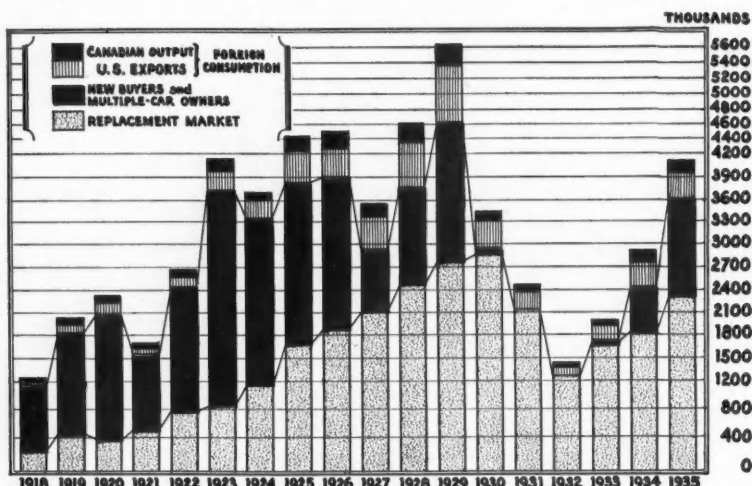
	1933		1934		1935	
	Number	Percent	Number	Percent	Number	Percent
Roadster	11,952	.73	13,013	.57	8,556	.25
Touring	10,418	.65	14,679	.65	8,587	.25
Convertible Coupe	21,185	1.30	35,885	1.58	35,027	1.04
Convertible Sedan	1,638	.10	3,020	.13	6,890	.20
Coupe	325,330	19.99	361,800	15.93	504,491	14.89
2-Door Sedan	533,905	32.80	830,593	36.58	1,299,325	38.35
4-Door Sedan	686,621	42.20	962,191	42.38	1,448,577	42.76
All other closed cars	23,002	1.41	5,902	.26	4,214	.13
Chassis	13,310	.82	43,483	1.92	72,139	2.13
Total	1,627,361	100%	2,270,566	100%	3,387,806	100%

Number and Percentage of Closed Cars, 1919-1935 United States and Canada

Year	Open	Closed	% Closed	Year	Open	Closed	% Closed
1919*	1,496,652	161,000	10.3%	1927...	466,238	2,617,122	84.9%
1920*	1,581,610	323,950	17.0%	1928...	460,128	3,552,030	88.5%
1921...	1,182,576	335,485	22.1%	1929...	510,409	4,284,489	89.4%
1922...	1,654,909	714,180	30.0%	1930...	282,729	2,627,458	90.4%
1923...	2,477,635	1,276,310	34.0%	1931...	144,270	1,893,913	92.9%
1924...	1,883,280	1,420,366	43.0%	1932...	47,453	1,138,756	96.0%
1925...	1,684,106	2,186,638	56.5%	1933...	22,370	1,604,991	98.5%
1926...	1,105,505	2,843,338	72.0%	1934...	27,692	2,242,874	98.8%
				1935...	17,518	3,370,288	99.5%

*United States only

Replacements and New Owner Sales Gain



Automobile Markets

(Figures include all Motor Vehicles)

Year	Factory Sales U. S. and Canada	FOREIGN MARKET			DOMESTIC MARKET		
		Canadian Output	U. S. Exports	Total Foreign	New Owners*	Replace- ments	Total Domestic
1918..	1,253,094	82,408	47,244	129,652	927,247	196,195	1,123,442
1918..	2,021,430	87,835	82,730	170,565	1,442,455	408,410	1,850,865
1920..	2,321,493	94,144	177,111	271,255	1,696,299	353,939	2,050,238
1921..	1,682,365	66,246	63,619	129,865	1,069,771	482,829	1,552,500
1922..	2,646,229	102,053	130,899	232,952	1,618,321	794,956	2,413,277
1923..	4,180,450	146,438	235,183	381,621	2,921,686	877,143	3,798,829
1924..	3,737,786	135,246	293,149	428,395	2,158,010	1,151,381	3,309,391
1925..	4,427,800	161,970	428,687	590,657	2,166,806	1,670,337	3,837,143
1926..	4,505,661	204,727	393,444	598,171	2,083,260	1,824,230	3,907,490
1927..	3,580,380	179,054	469,468	648,522	821,644	2,110,214	2,931,858
1928..	4,601,141	242,382	582,764	825,146	1,259,127	2,516,868	3,775,995
1929..	5,621,715	263,295	734,211	997,506	1,851,371	2,772,838	4,624,209
1930..	3,510,178	154,192	405,715	559,907	66,043	2,884,228	2,950,271
1931..	2,472,359	82,621	241,557	324,178	0	2,148,181	2,148,181
1932..	1,431,467	60,789	120,239	181,028	0	1,250,439	1,250,439
1933..	1,985,909	65,852	176,583	242,435	59,518	1,683,956	1,743,474
1934..	2,869,963	116,852	310,522	427,374	604,184	1,838,405	2,442,589
1935..	4,119,811	172,877	334,841	507,718	1,287,093	2,325,000	3,612,093

*Number of new motor vehicles sold in excess of number of old vehicles estimated to have been scrapped, that is, net additions to total vehicles in use during the year.

1935 Parts, Accessory and Tire Business

(Parts figures from Motor and Equipment Manufacturers Association)

Original Equipment of parts, tires, etc.		\$557,479,000
Parts, units and accessories	\$442,147,000	
Rubber tires and tubes	\$115,332,000	
Replacements of parts, tires, etc.		\$849,546,000
Parts, units, accessories and service equipment	\$580,446,000	
Rubber tires, tubes and repair materials	\$269,100,000	
Total Parts and Tire Business		\$1,407,025,000

Sales Value of Automobile Tire Shipments

	Pneumatic Casings	Inner Tubes	Solids and Cushions	Auto Tire Sundries and Fabrics	Total
1929	592,172,000	84,623,000	17,554,000	28,056,000	722,405,000
1930	439,095,000	63,364,000	9,535,000	20,288,000	532,282,000
1931	340,979,000	49,876,000	5,520,000	15,191,000	411,566,000
1932	251,447,000	31,884,000	3,270,000	10,955,000	297,556,000
1933	256,192,000	35,271,000	2,903,000	12,389,000	306,755,000
1934	269,957,000	36,804,000	1,941,000	15,680,000	324,382,000
1935	321,244,000	44,207,000	2,845,000	16,136,000	384,432,000

The above figures representing 100% of the tire industry are estimates made by the Automobile Manufacturers Association based on actual reports to The Rubber Manufacturers Association, Inc. from companies representing 98% of the industry's sales for 1929 to 1934 inclusive and 88% for 1935.

Rubber Tire Shipments

(Figures estimated by The Rubber Manufacturers Association, Inc.)

	Number of Units			
	1932	1933	1934	1935
High Pressure Casings	5,170,680	5,256,100	5,272,853	4,014,650
Balloon Casings	35,080,300	38,837,611	41,413,699	46,168,479
Solids and Cushions*	135,726	158,738	192,940	274,837
Inner Tubes	37,910,600	41,390,590	45,045,494	48,067,906

*Includes Industrial truck, tractor and trailer tires.

Capital Invested in Automobile Manufacturing*

Year	Cars	Trucks	Total
1919	\$784,660,761	\$230,782,577	\$1,015,443,338
1920	897,953,600	306,425,000	1,204,378,600
1921	1,134,166,000	289,334,000	1,423,500,000
1922	1,154,103,335	302,546,620	1,456,649,954
1923	1,281,364,300	290,358,100	1,571,722,400
1924	1,373,372,426	317,677,686	1,691,050,112
1925	1,503,290,062	384,738,748	1,888,028,810
1926	1,646,589,759	442,908,566	2,089,498,325
1927	1,643,989,116	436,668,548	2,080,657,664
1928	1,578,021,207	387,289,301	1,965,310,508
1929	1,518,714,814	437,972,847	1,956,687,661
1930	1,442,275,653	438,532,580	1,880,808,233
1931	1,215,200,000	380,600,000	1,595,800,000
1932	1,118,600,000	371,300,000	1,489,900,000
1933	1,012,548,000	336,418,000	1,348,966,000
1934	955,599,000	322,918,000	1,278,517,000
1935	969,265,000	304,469,000	1,273,734,000

*The above figures represent net tangible assets of motor vehicle manufacturing plants located in United States, and do not include parts, accessory, body and tire manufacturers.

Motor Vehicle Registrations, 1895-1935

(Figures as of December 31st)

Years	PASSENGER CARS		MOTOR TRUCKS		TOTAL MOTOR VEHICLES	
	Number	% Increase	Number	% Increase	Number	% Increase
1895.....	4	.....	.....	.....	4	.....
1896.....	16	.....	.....	.....	16	.....
1897.....	90	.....	.....	.....	90	.....
1898.....	800	.....	.....	.....	800	.....
1899.....	3,200	.....	.....	.....	3,200	.....
1900.....	8,000	.....	.....	.....	8,000	.....
1901.....	14,800	85%	.....	.....	14,800	85%
1902.....	23,000	55%	.....	.....	23,000	55%
1903.....	32,920	43%	.....	.....	32,920	43%
1904.....	54,590	66%	410	.....	55,000	67%
1905.....	77,400	42%	600	46%	78,000	42%
1906.....	105,900	37%	1,100	83%	107,000	37%
1907.....	140,300	33%	1,700	55%	142,000	33%
1908.....	194,400	38%	3,100	82%	197,500	39%
1909.....	305,950	57%	6,050	95%	312,000	58%
1910.....	458,500	50%	10,000	65%	468,500	50%
1911.....	619,500	35%	20,000	100%	639,500	36%
1912.....	902,600	46%	41,400	107%	944,000	48%
1913.....	1,194,262	32%	63,800	54%	1,258,062	33%
1914.....	1,625,739	36%	85,600	34%	1,711,339	36%
1915.....	2,309,666	42%	136,000	59%	2,445,666	43%
1916.....	3,297,996	43%	215,000	58%	3,512,996	44%
1917.....	4,657,340	42%	326,000	52%	4,983,340	42%
1918.....	5,621,617	21%	525,000	61%	6,146,617	23%
1919.....	6,771,074	21%	794,372	51%	7,565,446	23%
1920.....	8,225,859	22%	1,006,082	27%	9,231,941	22%
1921.....	9,346,195	14%	1,117,100	11%	10,463,295	13%
1922.....	10,862,650	16%	1,375,725	23%	12,238,375	17%
1923.....	13,479,608	24%	1,612,569	17%	15,092,177	23%
1924.....	15,460,649	15%	2,134,724	32%	17,595,373	17%
1925.....	17,496,420	13%	2,440,854	14%	19,937,274	13%
1926.....	19,237,171	10%	2,764,222	13%	22,001,393	10%
1927.....	20,219,224	5%	2,914,019	5%	23,133,243	5%
1928.....	21,379,125	6%	3,113,999	7%	24,493,124	6%
1929.....	23,121,589	8%	3,379,854	8%	26,501,443	8%
1930.....	23,059,262	-1/3%	3,486,019	3%	26,545,281	16%
1931.....	22,366,313	-3%	3,466,571	-6%	25,832,884	-2.5%
1932.....	20,885,814	-6.6%	3,229,315	-7%	24,115,129	-6.7%
1933.....	20,616,234	-1.2%	3,227,357	-.06%	23,843,591	-1.12%
1934.....	21,524,068	4.1%	3,409,335	5.5%	24,933,403	4.6%
1935.....	22,565,347	4.8%	3,655,705	7.1%	26,221,052	5.2%

Tax-Exempt Official Cars Not Included in the Above Registrations¹

Year	U. S. Cars†	State and Local	Total	Year	U. S. Cars†	State and Local	Total
1929..	33,179	118,828	152,007	1932..	36,475	143,666	180,141
1930..	33,179	140,440	173,619	1933..	36,475	177,370	213,845
1931..	*29,154	143,096	172,250	1934..	36,475	193,211	229,686
				1935..	36,475	190,796	227,271

¹—Some states require government-owned vehicles to pay registration fees same as privately-owned vehicles. In such states the government-owned vehicles are included among the regular registrations in above table. *From Government reports. 1932. †U. S. Budget Bureau figures.

Total Motor Vehicle Registrations by States—1930-1935

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1930	1931	1932	1933	1934	1935
Alabama.....	277,146	246,465	225,846	206,361	225,732	242,670
Arizona.....	110,525	105,572	94,935	89,496	96,586	103,122
Arkansas.....	220,204	180,731	136,583	188,242	198,091	207,429
California.....	2,041,356	2,043,281	1,974,932	1,971,929	2,006,255	2,151,501
Colorado.....	308,509	308,458	286,211	266,491	274,231	284,578
Connecticut.....	331,026	354,821	321,580	314,751	357,787	375,837
Delaware.....	56,109	55,202	52,341	51,099	54,240	56,560
Dist. of Columbia	156,676	173,519	161,176	149,790	163,070	171,464
Florida.....	327,801	323,260	286,021	279,265	335,205	356,244
Georgia.....	341,580	320,840	287,716	330,147	376,983	394,096
Idaho.....	119,077	111,663	96,039	96,255	108,863	118,266
Illinois.....	1,638,260	1,612,770	1,489,147	1,463,050	1,456,241	1,525,817
Indiana.....	875,763	862,672	797,126	770,071	803,271	850,650
Iowa.....	778,386	748,438	682,905	632,292	666,440	699,016
Kansas.....	594,523	559,176	504,784	517,987	528,664	553,106
Kentucky.....	331,002	327,326	291,309	294,547	332,177	347,676
Louisiana.....	275,283	263,050	238,877	232,688	244,007	268,824
Maine.....	186,157	188,238	171,424	168,173	178,995	181,165
Maryland.....	321,702	325,372	322,106	313,274	332,892	345,578
Massachusetts.....	846,206	840,190	801,317	789,788	785,392	785,090
Michigan.....	1,328,209	1,230,980	1,136,224	1,077,209	1,148,953	1,239,431
Minnesota.....	732,972	720,401	682,953	679,243	697,672	726,993
Mississippi.....	237,084	183,650	153,741	164,688	174,934	186,289
Missouri.....	761,600	752,805	717,460	698,362	739,813	766,369
Montana.....	135,168	127,166	109,203	110,245	128,336	149,712
Nebraska.....	426,229	416,131	374,849	390,651	406,632	406,189
Nevada.....	29,645	32,168	31,378	28,324	32,230	34,858
New Hampshire.....	112,183	111,510	105,215	107,631	113,134	117,154
New Jersey.....	852,850	869,867	854,782	845,734	864,641	888,292
New Mexico.....	84,150	81,325	76,872	76,643	82,900	92,457
New York.....	2,307,730	2,297,249	2,249,509	2,240,757	2,269,355	2,330,962
North Carolina.....	453,241	428,737	376,326	382,308	439,351	456,152
North Dakota.....	183,019	171,293	153,232	153,889	156,203	164,217
Ohio.....	1,759,363	1,710,625	1,589,322	1,554,314	1,613,265	1,712,051
Oklahoma.....	550,331	482,725	415,644	451,712	477,292	502,101
Oregon.....	273,625	278,225	258,762	239,410	274,117	293,554
Pennsylvania.....	1,753,521	1,741,942	1,665,418	1,635,019	1,681,202	1,745,401
Rhode Island.....	136,423	137,878	133,408	136,261	142,394	148,597
South Carolina.....	218,402	203,719	176,370	162,735	202,834	235,919
South Dakota.....	205,172	193,025	162,096	169,249	169,975	179,271
Tennessee.....	368,259	350,520	298,713	312,180	336,313	351,898
Texas.....	1,365,896	1,297,301	1,197,443	1,201,762	1,312,152	1,382,104
Utah.....	113,997	108,958	97,234	100,362	101,926	106,006
Vermont.....	86,624	83,877	77,475	73,576	77,921	81,513
Virginia.....	375,889	379,227	376,512	347,883	373,908	385,555
Washington.....	446,062	420,878	445,314	427,406	422,238	453,660
West Virginia.....	266,273	253,308	225,137	226,985	194,231	241,617
Wisconsin.....	782,562	754,249	695,953	670,797	709,359	754,037
Wyoming.....	61,501	62,101	56,209	52,560	64,990	69,998
Totals.....	26,545,281	25,832,884	24,115,129	23,843,591	24,933,403	26,221,052

Passenger Car

Registrations by States—1930-1935

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1930	1931	1932	1933	1934	1935
Alabama.....	239,170	212,493	194,271	176,523	191,631	203,687
Arizona.....	98,480	92,939	80,248	74,927	79,795	85,158
Arkansas.....	193,218	149,456	113,594	155,262	162,391	167,322
California.....	1,810,969	1,798,068	1,740,755	1,751,842	1,768,699	1,897,593
Colorado.....	276,847	276,376	255,854	239,058	246,373	256,148
Connecticut.....	279,830	302,594	270,192	262,187	301,909	313,605
Delaware.....	45,533	*45,211	*43,675	*42,614	*44,846	46,868
Dist. of Columbia	139,733	155,334	142,890	133,048	145,807	153,854
Florida.....	274,705	271,536	248,066	234,246	279,846	299,045
Georgia.....	294,461	274,576	245,666	278,935	316,731	328,017
Idaho.....	104,526	96,228	82,009	81,371	91,002	96,895
Illinois.....	1,430,676	1,411,261	1,311,327	*1,276,864	*1,281,976	1,340,340
Indiana.....	747,366	732,846	675,107	653,710	680,480	717,883
Iowa.....	706,196	670,024	608,023	562,802	591,090	618,487
Kansas.....	*511,384	*478,692	*433,006	*445,583	453,099	473,038
Kentucky.....	295,161	292,357	259,688	262,436	294,732	304,063
Louisiana.....	230,586	215,267	197,024	190,681	199,228	209,426
Maine.....	148,722	149,467	135,221	132,902	141,302	143,086
Maryland.....	283,870	289,292	280,579	278,546	287,541	297,050
Massachusetts...	743,288	736,302	698,358	689,934	686,884	684,679
Michigan.....	*1,161,051	*1,078,345	*1,012,951	*955,570	*1,025,548	1,112,148
Minnesota.....	624,902	611,966	581,303	580,113	593,790	621,132
Mississippi.....	203,443	*152,929	*128,577	131,764	140,819	152,983
Missouri.....	*670,145	*656,830	*618,195	*594,567	632,114	650,550
Montana.....	109,549	*103,129	*88,682	*82,765	*97,249	114,170
Nebraska.....	367,587	356,283	322,555	336,704	350,072	347,135
Nevada.....	23,388	25,218	24,851	22,397	25,839	27,983
New Hampshire...	93,155	92,839	87,837	87,759	90,752	93,699
New Jersey.....	719,696	736,506	726,178	723,506	741,290	763,426
New Mexico.....	170,450	65,441	61,852	61,353	66,788	74,212
New York.....	1,966,981	1,966,436	1,935,744	1,942,249	1,970,976	2,024,043
North Carolina...	397,133	374,162	326,064	332,648	384,585	398,221
North Dakota...	155,383	144,705	129,642	*128,547	129,888	135,437
Ohio.....	1,555,093	*1,518,696	1,421,830	*1,396,125	*1,453,420	1,541,097
Oklahoma.....	490,947	428,140	370,760	385,755	403,364	419,246
Oregon.....	251,188	255,275	224,285	207,202	232,706	250,970
Pennsylvania...	1,534,834	1,522,130	1,449,084	1,415,522	1,466,186	1,516,375
Rhode Island...	116,792	118,313	114,992	118,296	124,062	130,169
South Carolina...	192,141	180,280	156,648	144,940	181,957	206,158
South Dakota...	180,195	169,509	142,554	146,485	146,143	152,340
Tennessee.....	330,436	316,544	267,279	278,332	298,558	309,867
Texas.....	1,159,139	1,086,310	1,005,981	1,013,086	1,085,876	1,125,049
Utah.....	96,128	91,381	81,138	84,014	84,823	88,419
Vermont.....	78,398	75,424	69,166	65,652	69,309	72,482
Virginia.....	318,582	322,594	314,168	290,617	316,640	325,179
Washington....	382,874	360,796	381,488	364,858	357,917	385,003
West Virginia...	225,900	213,949	192,221	193,570	166,978	212,312
Wisconsin.....	677,452	640,476	587,906	566,450	589,179	623,893
Wyoming.....	51,579	51,388	46,330	41,917	51,888	55,405
Totals....	23,059,262	22,366,313	20,885,814	20,616,234	21,524,068	22,565,347

†. ‡See footnote under trucks.

*Buses not included.

Motor Truck

Registrations by States—1930-1935

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1930	1931	1932	1933	1934	1935
Alabama.....	37,976	33,972	31,575	29,838	34,101	38,989
Arizona.....	12,045	12,633	14,687	14,569	16,791	17,964
Arkansas.....	26,986	31,275	122,989	32,980	35,700	40,107
California.....	230,387	245,213	234,177	220,087	237,556	253,908
Colorado.....	31,662	32,062	30,357	27,433	27,858	28,430
Connecticut.....	51,196	52,227	51,388	52,564	55,878	62,232
Delaware.....	10,576	*9,991	*8,666	*8,485	*9,394	9,692
Dist. of Columbia	16,943	18,185	18,286	16,742	17,263	17,610
Florida.....	53,096	51,724	37,955	45,019	55,359	57,199
Georgia.....	47,119	46,264	42,050	51,212	60,262	66,079
Idaho.....	14,551	15,435	14,030	14,884	17,861	21,371
Illinois.....	207,584	201,509	177,820	*186,186	*174,265	185,477
Indiana.....	128,397	129,826	122,019	116,361	122,791	132,767
Iowa.....	72,190	78,414	74,882	69,490	75,350	80,529
Kansas.....	*83,139	*80,484	*71,778	*72,404	75,565	80,068
Kentucky.....	35,841	34,969	31,621	32,111	37,445	43,613
Louisiana.....	44,697	47,783	41,853	42,007	44,779	59,398
Maine.....	37,435	38,771	36,203	35,271	37,693	38,079
Maryland.....	37,832	36,080	41,527	34,728	45,351	48,528
Massachusetts...	102,918	103,888	102,959	99,854	98,508	100,411
Michigan.....	*167,158	*152,635	123,273	*121,639	*123,405	127,283
Minnesota.....	108,070	108,435	101,650	99,130	103,882	105,861
Mississippi.....	33,651	*30,721	*25,164	32,924	34,115	33,306
Missouri.....	*91,455	*96,975	*99,265	*103,795	107,709	115,819
Montana.....	25,619	*24,037	*20,521	*27,480	*31,087	35,542
Nebraska.....	58,642	59,848	52,294	53,947	56,560	59,054
Nevada.....	6,257	6,950	6,527	5,927	6,391	6,875
New Hampshire...	19,028	18,671	17,378	19,872	22,382	23,455
New Jersey.....	133,154	133,361	128,604	122,228	123,351	124,866
New Mexico.....	†13,700	15,884	15,020	15,290	16,112	18,245
New York.....	340,749	330,813	313,765	298,508	298,379	306,919
North Carolina...	56,108	54,575	50,262	49,660	54,766	57,931
North Dakota...	27,636	26,588	23,590	*25,342	26,315	28,780
Ohio.....	204,270	*191,929	167,492	*158,189	*159,845	170,954
Oklahoma.....	59,384	54,585	44,884	65,957	73,928	82,855
Oregon.....	22,437	22,950	34,477	‡32,208	41,411	42,584
Pennsylvania...	218,687	219,812	216,334	219,497	215,016	229,026
Rhode Island...	19,631	19,565	18,416	17,965	18,332	18,428
South Carolina...	26,261	23,439	19,722	17,795	20,877	29,761
South Dakota...	24,977	23,516	19,542	22,764	23,832	26,931
Tennessee.....	37,823	33,976	31,434	33,848	37,755	42,031
Texas.....	206,757	210,991	191,462	188,676	226,276	257,055
Utah.....	17,869	17,577	16,096	16,348	17,103	17,587
Vermont.....	8,226	8,453	8,309	7,924	8,612	9,031
Virginia.....	57,307	56,633	62,344	57,265	57,268	60,376
Washington.....	63,188	60,082	63,826	62,548	64,321	68,657
West Virginia...	40,373	39,359	32,916	33,415	27,253	29,305
Wisconsin.....	105,110	113,773	108,047	104,347	120,180	130,144
Wyoming.....	9,922	10,713	9,879	10,643	13,102	14,593
Totals.....	3,486,019	3,466,571	3,229,315	3,227,357	3,409,335	3,655,705

†Big increase due largely to reclassification of trucks which previously had been classed as passenger cars.

‡In 1928, 27,089 commercial cars with pneumatic tires were included under passenger cars, practically all of which were classed as trucks in 1929. † Includes 11,700 light delivery cars.

*Includes Buses; other States include buses with passenger cars.

Standing of States in Registrations, 1935

MOTOR VEHICLE REGISTRATION	NUMERICAL INCREASE FROM 1934	PERCENT INCREASE FROM 1934	POPULATION PER MOTOR VEHICLE
1 N. Y. 2,330,962	1 Calif. 145,246	1 Mont. 16.7	1 Calif. 2.62
2 Calif. 2,151,501	2 Ohio. 98,786	2 S. C. 16.3	2 Nev. 2.84
3 Pa. 1,745,401	3 Mich. 9,478	3 N. M. 11.5	3 Wyo. 3.31
4 Ohio. 1,712,051	4 Tex. 69,952	4 La. 10.2	4 Kan. 3.35
5 Ill. 1,525,817	5 Ill. 69,576	5 Ida. 8.6	5 Neb. 3.36
6 Tex. 1,382,104	6 Pa. 64,199	6 W. Va. 8.3	6 Ore. 3.43
7 Mich. 1,239,431	7 N. Y. 57,276	7 Nev. 8.2	7 D. C. 3.47
8 N. J. 888,292	8 Ind. 47,379	8 Ore. 7.9	8 Mont. 3.55
9 Ind. 850,650	9 Wis. 44,678	9 Mich. 7.9	9 Wash. 3.60
10 Mass. 785,090	10 S. C. 33,085	10 Wyo. 7.7	10 Minn. 3.61
11 Mo. 766,369	11 Iowa. 32,576	11 Ala. 7.5	11 Iowa. 3.62
12 Wis. 754,037	12 Wash. 31,422	12 Wash. 7.4	12 Col. 3.73
13 Minn. 726,993	13 Minn. 29,321	13 Calif. 7.2	13 Ariz. 3.75
14 Iowa. 699,016	14 Mo. 26,556	14 Ariz. 6.8	14 Mich. 3.76
15 Kan. 553,106	15 La. 24,817	15 Miss. 6.5	15 S. D. 3.77
16 Okla. 502,101	16 Okla. 24,809	16 Wis. 6.3	16 Wis. 3.86
17 N. C. 456,152	17 Kan. 24,442	17 Fla. 6.3	17 Ohio. 3.92
18 Wash. 453,660	18 N. J. 23,651	18 Conn. 6.1	18 Ind. 4.03
19 Nebr. 406,189	19 Conn. 21,695	19 Ohio. 6.1	19 Ida. 4.05
20 Ga. 394,096	20 Ore. 21,452	20 Ind. 5.9	20 N. D. 4.26
21 Va. 385,555	21 Mont. 21,376	21 S. D. 5.5	21 N. H. 4.29
22 Conn. 375,837	22 Fla. 21,039	22 Tex. 5.3	22 N. M. 4.35
23 Fla. 356,244	23 W. Va. 18,462	23 Okla. 5.2	23 Tex. 4.40
24 Tenn. 351,898	24 Ga. 17,103	24 D. C. 5.1	24 Del. 4.53
25 Ky. 347,676	25 Ala. 16,944	25 N. C. 5.1	25 Fla. 4.53
26 Md. 345,578	26 N. C. 16,801	26 Iowa. 4.9	26 Conn. 4.57
27 Ore. 293,554	27 Tenn. 15,585	27 Ill. 4.8	27 R. I. 4.58
28 Colo. 284,578	28 Ky. 15,499	28 Ark. 4.7	28 Vt. 4.63
29 La. 268,824	29 Md. 12,686	29 Ky. 4.7	29 Me. 4.66
30 Ala. 242,676	30 Va. 11,647	30 Tenn. 4.6	30 Md. 4.83
31 W. Va. 241,617	31 Miss. 11,355	31 Kan. 4.6	31 N. J. 4.85
32 S. C. 235,919	32 Colo. 10,347	32 Vt. 4.6	32 Utah. 4.86
33 Ark. 207,429	33 N. M. 9,557	33 Ga. 4.5	33 Okla. 5.00
34 Miss. 186,289	34 Ida. 9,403	34 R. I. 4.4	34 Mo. 5.11
35 Me. 181,165	35 Ark. 9,338	35 Del. 4.3	35 Ill. 5.12
36 S. D. 179,271	36 S. D. 9,296	36 Minn. 4.2	36 N. Y. 5.53
37 D. C. 171,464	37 D. C. 8,394	37 Utah. 4.0	37 Mass. 5.57
38 N. D. 164,217	38 N. D. 8,014	38 N. C. 3.8	38 Pa. 6.11
39 Mont. 149,712	39 Ariz. 6,536	39 Pa. 3.8	39 Va. 6.84
40 R. I. 148,597	40 R. I. 6,203	40 Md. 3.8	40 N. C. 7.49
41 Ida. 118,266	41 Wyo. 5,008	41 Col. 3.8	41 W. Va. 7.51
42 N. H. 117,154	42 Utah. 4,080	42 Mo. 3.6	42 La. 7.89
43 Utah. 106,006	43 N. H. 4,020	43 N. H. 3.6	43 Ky. 8.19
44 Ariz. 103,122	44 Vt. 3,592	44 Va. 3.1	44 Tenn. 8.25
45 N. M. 92,457	45 Nev. 2,628	45 N. J. 2.7	45 Ga. 8.49
46 Vt. 81,513	46 Del. 2,345	46 N. Y. 2.5	46 S. C. 8.53
47 Wyo. 69,998	47 Me. 2,170	47 Me. 1.2	47 Ark. 9.64
48 Del. 56,560	48 Mass. -302	48 Mass. .... .0	48 Miss. 10.53
49 Nev. 34,858	49 Neb. -443	49 Neb. -0.1	49 Ala. 11.68
Total. 26,221,052	Ttaol. 1,260,079	Total. 5.0	Total per M. V. 4.86
			Per pass. car 5.65

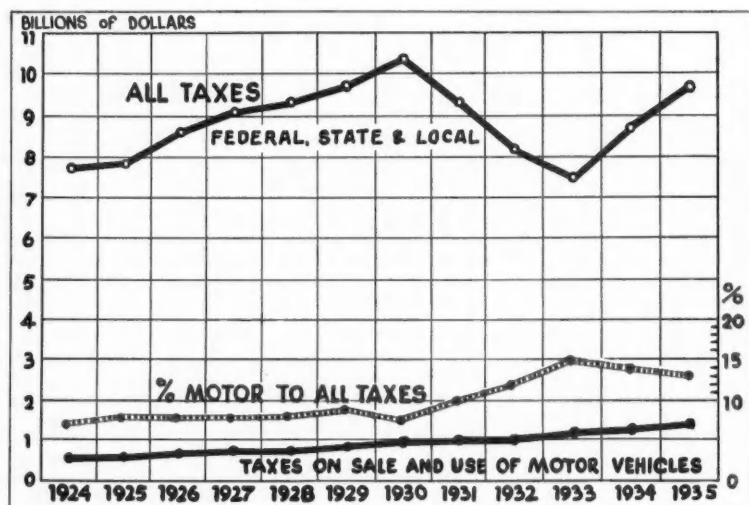
5,035,000 Motor Vehicles on Farms

(Figures from U. S. Census of Agriculture, 1930, Latest available)

States	Motor Vehicles	Passenger Cars	Motor Trucks	% of All Trucks on Farms	Tractors	Tele- phones	Radios
Alabama.....	86,472	73,634	12,838	33.9	4,664	19,510	4,453
Arizona.....	12,978	9,916	3,062	28.6	2,558	2,672	2,352
Arkansas.....	76,935	65,935	11,000	27.6	5,684	25,046	6,001
California.....	177,813	136,842	40,971	19.1	44,437	48,171	60,165
Colorado.....	69,176	52,258	16,918	59.3	13,334	23,877	19,188
Connecticut.....	19,498	13,154	6,344	12.6	2,667	11,366	10,200
Delaware.....	11,720	8,724	2,996	29.2	1,600	2,420	3,098
D. of Col.....	141	60	81	.....	17	69	35
Florida.....	38,590	26,387	12,203	21.2	5,244	3,525	3,644
Georgia.....	104,446	88,479	15,967	32.8	5,870	14,771	5,637
Idaho.....	40,247	33,966	6,281	45.9	4,691	15,733	11,023
Illinois.....	233,244	192,873	40,371	19.8	69,628	147,672	96,250
Indiana.....	184,593	154,556	30,037	23.9	41,979	110,333	64,628
Iowa.....	273,181	240,512	32,669	46.8	66,258	180,876	114,006
Kansas.....	204,666	171,018	33,648	45.6	66,275	120,890	64,572
Kentucky.....	93,972	86,784	7,188	21.5	7,322	61,631	16,992
Louisiana.....	52,363	43,082	9,281	20.0	5,016	6,106	2,973
Maine.....	37,008	26,227	10,781	29.0	3,410	22,189	14,424
Maryland.....	49,256	37,972	11,284	29.0	7,208	11,935	12,421
Massachusetts.....	27,210	17,638	9,572	9.7	3,921	16,581	15,557
Michigan.....	187,690	150,922	36,768	20.9	34,579	73,757	64,662
Minnesota.....	222,274	185,717	36,557	36.6	48,457	114,693	74,231
Mississippi.....	102,066	85,563	16,503	50.5	5,542	15,858	3,859
Missouri.....	196,598	176,466	20,132	23.7	24,999	137,712	62,863
Montana.....	52,781	38,166	14,615	58.2	19,031	9,697	16,109
Nebraska.....	167,189	141,144	26,045	61.6	40,729	93,888	65,273
Nevada.....	4,162	2,921	1,241	18.7	360	1,460	978
New Hampshire.....	15,618	11,079	4,539	32.4	1,096	9,313	7,344
New Jersey.....	37,124	22,371	14,753	11.0	8,088	10,373	16,777
New Mexico.....	20,723	15,395	5,328	38.9	2,497	2,879	2,203
New York.....	200,890	141,916	58,974	17.2	40,369	78,185	85,914
North Carolina.....	151,434	132,876	18,558	35.0	11,426	19,852	9,297
North Dakota.....	95,788	78,798	16,990	65.4	37,605	31,878	30,692
Ohio.....	240,762	201,552	39,210	18.9	52,974	121,214	86,011
Oklahoma.....	151,378	127,448	23,930	39.6	25,962	53,149	23,611
Oregon.....	57,181	47,440	9,741	44.5	9,838	26,557	19,488
Pennsylvania.....	199,284	152,222	47,062	21.1	33,513	73,321	62,856
Rhode Island.....	4,270	2,569	1,701	8.5	589	1,742	2,158
South Carolina.....	68,720	61,754	6,966	27.2	3,462	6,357	3,371
South Dakota.....	96,739	81,923	14,816	65.0	33,837	44,608	37,218
Tennessee.....	98,061	89,022	9,039	27.6	6,865	45,205	12,538
Texas.....	352,756	300,176	52,580	28.7	37,348	97,346	39,347
Utah.....	21,763	17,574	4,189	24.6	1,426	7,416	7,321
Vermont.....	23,655	18,620	5,035	58.8	2,426	15,093	10,689
Virginia.....	107,922	88,463	19,459	33.1	9,757	30,418	13,376
Washington.....	74,831	55,995	18,836	30.2	8,388	31,764	26,822
West Virginia.....	44,410	36,978	7,432	18.4	2,792	28,117	9,075
Wisconsin.....	228,550	176,764	51,786	49.7	50,173	107,486	72,826
Wyoming.....	16,932	12,824	4,108	46.6	4,110	4,483	4,967
Total.....	5,035,060	4,134,675	900,385	26.6	920,021	2,139,194	1,399,495

12,048,762 families, or 40.3% of 29,904,663 total city and farm families in the United States have radio sets.

Motorists Pay One Out Of Every Eight Tax Dollars



Automotive Products Pay 72% of All Federal Excise Taxes

(Source: U. S. Bureau of Internal Revenue)

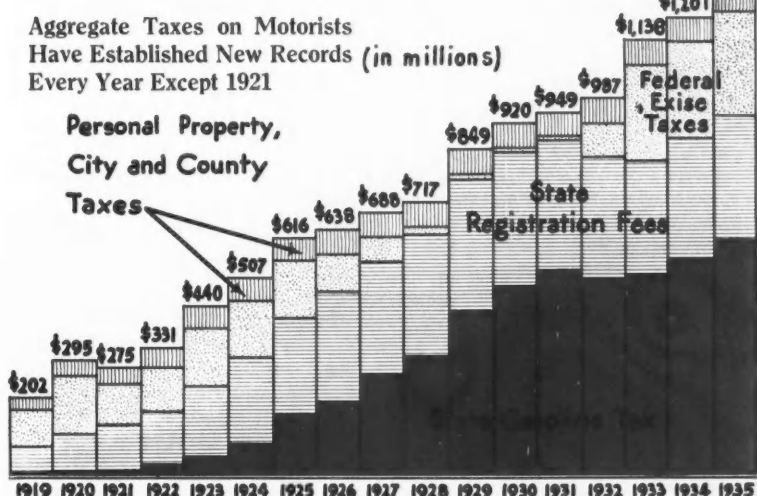
	1932	1933	1934	1935
Automobiles.....	\$4,221,263	\$22,475,887	\$31,533,516	\$42,262,453
Trucks.....	720,155	3,046,826	5,261,207	6,674,270
Parts and Accessories.....	1,900,111	4,443,071	5,886,002	7,019,009
Rubber Tires and Tubes.....	7,545,071	23,836,119	24,704,077	28,102,446
Gasoline.....	62,839,827	181,125,988	170,109,269	172,263,481
Lubricating Oil*.....	4,063,766	12,816,534	14,657,658	17,003,162
Total automotive.....	\$81,290,193	\$247,744,425	\$252,151,729	\$273,324,821
Lubricating oil, non-automotive.....	3,003,653	9,473,091	10,185,831	11,815,756
Pipe lines.....	2,577,905	10,237,275	10,008,692	9,256,287
Total.....	\$86,871,751	\$267,454,791	\$272,346,252	\$294,396,864
All manufacturers' excise taxes.....		\$346,676,272	\$341,209,946	\$381,644,814
Percent automotive to total....		71.4%	73.9%	71.6%

¹—Federal excise taxes became effective June 21, 1932.

* Motor vehicles used 57.5% of all lubricating oil and hence paid 57.5% of lubricating oil excise taxes in 1933. In 1934 and 1935 motor vehicles used 59%. Automotive share is shown in the above table.

1935 Motor Taxes Climb to New Peak

Aggregate Taxes on Motorists
Have Established New Records (in millions)
Every Year Except 1921



\$1,286,000,000 Motor Owner Taxes in 1935

	State Registration Fees	State Gasoline Tax	Federal Excise Taxes†	Personal Property City and County Taxes ‡	Total*
1919.....	\$ 64,697,255	\$ 1,022,514	\$101,138,191	\$35,000,000	\$202,365,681
1920.....	102,546,212	1,363,902	149,207,520	40,000,000	295,157,877
1921.....	122,478,654	5,382,111	99,967,423	45,000,000	274,604,682
1922.....	152,047,824	12,703,088	114,793,400	50,000,000	331,329,932
1923.....	188,970,992	38,566,338	155,796,944	55,000,000	440,241,674
1924.....	225,492,252	80,442,295	139,201,755	60,000,000	507,150,141
1925.....	260,619,621	148,358,087	143,430,709	62,000,000	616,273,492
1926.....	288,282,352	187,603,231	96,255,639	66,000,000	638,272,350
1927.....	301,061,132	258,838,813	60,473,708	68,000,000	688,373,653
1928.....	322,630,025	304,871,766	20,386,176	69,000,000	716,887,967
1929.....	347,843,543	431,311,519	.....	70,000,000	849,155,062
1930.....	355,704,860	493,865,117	.....	70,000,000	919,569,977
1931.....	344,337,654	536,397,458	.....	68,000,000	948,735,112
1932.....	324,273,510	513,047,239	81,290,193‡	68,382,000	986,992,942
1933.....	302,715,884	518,195,712	247,744,425	70,000,000	1,138,656,021
1934.....	312,929,000	565,027,000	252,151,729	71,000,000	1,201,107,729
1935.....	322,481,415	616,851,671	273,324,821	73,500,000	1,286,157,907

These are taxes on the motor vehicle owners. Income and property taxes on motor vehicle, body, parts and tire factories, garages, dealers, repair shops, terminals and truck, taxicab and bus operating companies are not included.

*Totals include Federal tax on vehicles for hire (fiscal year): 1919—\$507,721 1920—\$2,040,243 1921—\$1,776,494 1922—\$1,785,620 1923—\$1,907,400 1924—\$2,013,839 1925—\$1,865,075 1926—\$131,128.

†Figures from Bureau of Internal Revenue; War tax removed May 29, 1928. ‡Estimated by Automobile Manufacturers Association, including bridge and tunnel tolls.

§On sales between June 21st and December 31st, 1932.

Multiple Taxes on Motor Users

Federal Excise Taxes on Wholesale Value

Passenger cars	3%	Gasoline	1¢ a gallon
Motor trucks	2%	Lubricating oil	4¢ a gallon
Parts and accessories	2%	Rubber tires	2¼¢ a pound
		Inner tubes	4¢ a pound

Special State Taxes on Motor Vehicle Owners

Gasoline tax from 2 cts. to 7 cts a gallon.	Operators' or chauffeurs' permits.
Registration fees based on one or a combination of the following measures:	Financial responsibility, or compulsory insurance.
(a) Horsepower	Gross receipts.
(b) Weight—gross or net	Ton-miles, gross, net, capacity or other.
(c) Value	Mileage.
(d) Seating capacity	Occupational tax.
(e) Tires, solid or pneumatic	Privilege tax.

Certificate of title.

General State Taxes

- General state sales tax in 23 states

Arizona	Idaho	Kentucky	Mississippi	North Dakota	Utah
Arkansas	Illinois	Maryland	Missouri	Ohio	Washington
California	Indiana	Michigan	New Mexico	Oklahoma	West Virginia
Colorado	Iowa		North Carolina	South Dakota	Wyoming
- Personal property tax in 32 states.

Special City and County Taxes on Motor Users

Municipal and county taxes on motor vehicles in the form of registration fees, wheel tax and operators' licenses are permitted in the following states:

Alabama	Delaware	Kentucky	North Carolina	Tennessee
Arizona	Georgia	Mississippi	South Carolina	Texas
Arkansas	Illinois	Missouri	Oklahoma	Virginia
California	Indiana	Nebraska	Ohio	Washington
Colorado	Iowa	Nevada	Oregon	Wyoming

Municipal and county taxes on gasoline are in effect in the following places:

	Number of Cities	Counties		Number of Cities	Counties
Alabama	145	6	Missouri	63	...
Florida	11	...	Nevada	1	...
Louisiana . . . . .	...	64	New Mexico	21	...
Mississippi . . . . .	...	2	Wyoming	3	...

These cities and counties are known to have special gasoline taxes but there may be additional municipalities either in these same states or in other states which have not as yet come to our attention.

3,000,000 Auto Radios in Use on January 1, 1936

(Source: Joint Committee on Radio Research)

Automobile radio sets in use, 1935	3,000,000
Automobile set sales during 1935	1,100,000
Total radio families as of December 31, 1935	22,869,000
Percentage of total families owning radios	74%
Sets sold for home use in 1935 (excl. auto sets)	4,400,000
New radio families added during 1935	1,413,000
Increase in radio families over 1934	6.6%

\$48,800,000 Estimated State Motor Retail Sales Taxes

These are general state retail taxes in addition to special automotive taxes such as gasoline taxes and registration fees

	New Cars	New Trucks	Parts & Accessories	Tires & Tubes	Lub. Oil	Total
Arizona.....	\$ 140,348	\$ 54,003	\$ 65,233	\$ 28,123	\$ 37,122	\$ 324,829
Arkansas.....	274,551	135,995	150,514	64,890	71,690	697,640
California.....	4,166,763	735,220	2,072,002	893,286	1,017,506	8,884,777
Colorado.....	401,247	112,104	202,905	87,481	92,230	895,967
Idaho.....	170,694	73,754	83,065	35,811	36,176	399,500
Illinois.....	3,451,017	524,648	1,367,023	589,353	668,277	6,600,318
Indiana.....	700,923	165,863	286,997	123,731	124,209	1,401,723
Iowa.....	1,061,907	234,929	496,657	214,120	210,476	2,218,089
Kentucky.....	826,102	251,129	367,469	158,424	150,844	1,753,968
Maryland.....	281,651	61,311	122,844	52,961	54,317	573,084
Michigan.....	4,218,152	583,104	1,325,630	572,108	646,775	7,345,769
Mississippi.....	148,040	60,537	63,456	27,357	36,834	336,224
Missouri.....	352,729	94,725	182,152	78,530	84,844	792,980
New Jersey.....	338,692	85,082	210,966	90,952	122,629	848,321
New Mexico.....	127,989	74,748	65,191	28,105	31,170	327,203
North Carolina...	1,293,369	382,261	495,201	213,492	232,350	2,616,673
North Dakota.....	194,225	57,912	117,097	50,483	60,039	479,756
Ohio.....	4,166,963	629,190	1,804,207	777,833	761,195	8,139,388
Oklahoma.....	408,993	108,383	179,014	77,177	81,888	855,455
South Dakota.....	208,377	55,628	127,807	55,100	59,484	506,396
Utah.....	166,705	64,433	76,479	32,972	35,561	376,150
Washington.....	564,949	167,180	323,623	139,521	136,793	1,332,066
West Virginia.....	401,678	122,419	171,131	73,778	79,545	848,551
Wyoming.....	110,418	40,635	50,003	21,558	24,749	247,363
Total.....	\$24,176,482	\$4,875,193	\$10,406,666	\$4,487,146	\$4,856,703	\$48,802,190

The above figures were not furnished by the states, but indicate the probable revenue collected by each state having retail sales taxes by applying its rate of tax to the estimated retail volume of each class of sales. The latter for "New Cars" and "New Trucks" was obtained by multiplying each state's new car and truck registrations by an estimated average unit value.

For "Parts and Accessories," the country's wholesale volume, based on the Federal Excise Tax revenue, was given an estimated mark-up and prorated to each state in the ratio of its registration to the total U. S. registration.

For "Tires and Tubes" the Rubber Manufacturers Association figures for wholesale volume were marked-up and prorated also according to the number of cars in use.

For "Lubricating Oil," the American Petroleum Institute's figures for each state's gasoline consumption were made the basis adjusted according to average percentage used by road vehicles, an estimated ratio of oil to gasoline used and an assumed average retail sales price per gallon.

Alabama is omitted above because it has no general sales tax, but it does tax lubricating oil and is estimated to have collected \$86,239 therefrom in 1935.

No attempt has been made to estimate general sales taxes on other automotive products or services such as used cars, second-hand parts, repairs, garaging, etc.

Motor Vehicle Registration Receipts

(Figures from United States Bureau of Public Roads)

	1930	1931	1932	1933	1934	1935
Alabama.....	\$3,799,761	\$3,379,392	\$3,038,206	\$2,724,257	\$3,251,000	\$3,527,781
Arizona.....	734,626	767,508	709,069	647,816	864,000	848,146
Arkansas.....	4,283,959	3,495,545	2,796,023	1,768,850	2,203,000	2,525,672
California.....	9,858,810	9,763,274	9,391,366	9,866,449	11,517,000	10,562,502
Colorado.....	1,901,230	1,910,741	1,946,983	2,035,608	2,358,000	2,206,930
Connecticut....	8,290,404	8,259,542	7,953,950	7,850,589	8,099,000	8,392,408
Delaware.....	1,110,047	1,043,173	1,018,396	1,014,333	883,000	1,011,520
Dist. of Col....	636,001	623,460	868,086	625,508	830,000	904,901
Florida.....	4,813,495	4,851,968	5,267,792	4,994,882	4,409,000	4,864,764
Georgia.....	4,482,257	4,256,553	3,825,528	1,036,241	1,193,000	1,248,278
Idaho.....	1,998,290	1,909,363	1,617,261	1,401,849	1,601,000	1,879,602
Illinois.....	18,444,247	18,426,497	16,966,682	16,229,327	18,284,000	19,075,621
Indiana.....	6,346,879	6,332,101	6,090,486	7,846,883	7,285,000	8,284,904
Iowa.....	12,693,621	12,539,613	11,670,688	10,695,407	10,410,000	9,921,731
Kansas.....	6,084,348	6,059,910	5,438,981	3,056,837	3,907,000	3,495,576
Kentucky.....	5,547,069	4,842,108	4,650,638	4,174,076	3,217,000	3,507,149
Louisiana.....	4,609,042	4,549,244	4,120,002	4,052,816	4,380,000	3,563,380
Maine.....	3,166,642	3,184,091	2,956,638	2,909,237	3,165,000	3,269,770
Maryland.....	3,437,796	3,497,807	3,450,386	3,581,251	3,523,000	4,099,850
Mass.....	7,120,583	7,000,306	6,567,646	6,508,343	6,634,000	6,320,396
Michigan.....	22,482,412	21,821,290	19,835,711	18,560,314	16,198,000	17,594,552
Minnesota.....	11,062,150	10,784,845	10,121,697	6,366,982	6,884,000	7,175,323
Mississippi.....	3,046,393	2,421,287	2,137,953	1,870,396	2,023,000	1,740,856
Missouri.....	10,150,000	10,140,429	9,824,564	9,356,828	7,670,000	8,350,511
Montana.....	1,583,276	1,499,492	1,294,174	1,070,104	1,082,000	1,271,299
Nebraska.....	3,804,950	3,742,401	3,349,152	1,721,834	1,945,000	1,998,644
Nevada.....	373,966	388,327	395,440	299,634	387,000	262,464
New Hamp.....	2,290,435	2,257,459	2,104,096	2,167,421	2,482,000	1,649,660
New Jersey.....	15,382,456	15,891,204	15,413,228	15,377,843	15,687,000	16,629,209
New Mexico....	1,279,623	1,248,097	769,869	666,748	910,000	1,108,714
New York.....	40,857,715	41,877,611	41,272,035	42,318,407	41,664,000	43,487,810
N. Carolina.....	6,835,743	6,164,549	5,444,356	5,356,126	7,070,000	6,614,212
N. Dakota.....	1,958,662	1,799,120	1,799,973	1,382,008	1,306,000	1,381,482
Ohio.....	13,287,352	12,818,705	18,424,972	17,677,551	19,961,000	22,153,123
Oklahoma.....	6,536,361	5,857,107	4,789,291	3,382,455	3,861,000	3,861,366
Oregon.....	9,617,930	6,940,504	6,548,171	5,337,137	5,909,000	2,761,904
Penn.....	33,112,371	31,607,172	29,815,715	29,184,792	30,842,000	32,155,367
Rhode Island...	2,280,849	2,272,879	2,183,509	2,198,342	2,315,000	2,416,154
So. Carolina...	2,878,352	2,790,008	2,470,470	2,503,367	2,912,000	1,848,510
So. Dakota....	2,959,913	2,808,172	2,444,290	1,459,027	1,578,000	1,371,026
Tennessee.....	4,767,239	4,580,685	3,872,094	2,940,010	3,359,000	3,533,502
Texas.....	13,961,362	13,994,647	13,154,999	12,747,489	14,969,000	15,788,234
Utah.....	855,584	828,303	801,846	797,598	1,184,000	1,071,489
Vermont.....	2,392,152	2,355,913	2,218,413	2,072,717	2,157,000	2,300,049
Virginia.....	6,493,989	6,159,257	6,240,867	6,112,098	5,063,000	5,150,755
Washington....	7,616,676	7,623,570	2,179,547	2,482,758	2,913,000	3,399,406
W. Va.....	4,702,812	4,519,763	4,064,526	3,837,922	2,017,000	4,514,993
Wisconsin.....	13,083,521	11,724,995	10,281,303	9,768,006	11,085,000	10,897,032
Wyoming.....	691,509	727,667	676,442	679,411	483,000	482,888
Total.....	\$355,704,860	\$344,337,654	\$324,273,510	\$302,715,884	\$312,929,000	\$322,481,415

¹—Change of fiscal year, 18 months included.

²—10 months ending Oct. 31, 1933.

³—Year changed from June 30 to Dec. 31. Last 6 months 1933 fees \$1,843,000.

⁴—Year ended Oct. 31, 1934.

⁵—Year ended Mar. 31, 1935.

⁶—Year ending June 30, 1933.

⁷—Year ended Sept. 30, 1934.

⁸—15 months period ended Mar. 31, 1935.

⁹—6 months period ended June 30, 1934.

State Gasoline Tax Receipts by Years

Exemption Refunds Have Been Excluded

(Figures from United States Bureau of Public Roads)

	1931	1932	1933	1934	1935	Total 1919 to 1935
Alabama.....	\$7,197,474	\$7,000,502	\$8,033,141	\$9,299,000	\$10,269,346	\$75,404,743
Arizona.....	3,204,288	2,900,221	2,679,032	3,028,000	3,277,884	26,976,575
Arkansas.....	6,448,049	5,164,976	5,989,429	7,864,000	8,193,206	66,780,685
California.....	39,863,637	36,128,854	35,217,162	35,960,000	39,971,405	356,127,943
Colorado.....	6,254,338	5,469,220	5,324,996	6,475,000	6,009,533	56,993,302
Connecticut....	4,727,993	4,684,588	4,811,630	4,973,000	5,618,123	46,859,879
Delaware.....	1,072,061	1,090,150	1,127,330	1,185,000	1,476,432	10,526,307
Dis. of Col....	1,726,296	2,035,497	2,082,346	2,063,000	2,197,209	17,924,679
Florida.....	14,986,170	14,508,777	14,249,308	16,499,000	17,865,732	151,770,978
Georgia.....	13,313,500	11,938,809	12,634,513	14,366,000	15,771,723	123,187,327
Idaho.....	2,598,366	2,277,727	2,282,370	2,871,000	3,122,744	24,181,877
Illinois.....	29,065,685	28,754,051	27,833,011	29,126,000	30,060,184	191,007,444
Indiana.....	18,034,553	16,739,561	16,283,202	17,550,000	18,863,788	165,897,104
Iowa.....	10,927,589	8,970,137	9,372,343	11,250,000	11,548,635	96,139,941
Kansas.....	8,070,885	7,420,495	7,731,819	8,516,000	8,830,647	75,059,615
Kentucky.....	8,810,130	8,202,889	8,314,659	9,218,000	9,835,518	84,821,497
Louisiana.....	9,397,783	8,300,722	8,155,436	8,923,000	9,345,443	72,930,727
Maine.....	4,382,728	4,206,702	4,080,371	4,486,000	4,572,566	38,919,248
Maryland.....	7,431,002	7,500,232	7,207,749	7,809,000	8,738,025	68,182,556
Massachusetts..	15,306,376	16,519,278	16,377,352	17,002,000	17,334,090	102,860,859
Michigan.....	21,832,347	20,431,328	19,458,458	20,978,000	22,785,442	199,381,721
Minnesota.....	11,070,159	10,000,557	10,014,857	10,845,000	11,126,710	91,920,127
Mississippi.....	5,882,264	5,650,161	5,801,725	6,888,000	7,512,175	64,984,931
Missouri.....	9,206,564	8,949,693	9,081,135	9,575,000	9,729,408	851,961,105
Montana.....	3,018,154	2,690,156	2,751,303	3,664,000	3,844,542	28,104,541
Nebraska.....	9,096,248	7,809,465	7,706,261	8,570,000	9,712,186	72,593,873
Nevada.....	777,918	727,117	695,653	894,000	961,844	7,381,281
New Hampshire..	2,657,143	2,638,841	2,349,849	2,746,000	2,868,166	23,452,239
New Jersey....	17,124,632	16,617,425	16,397,386	17,034,000	18,179,460	119,186,865
New Mexico....	2,664,704	2,192,253	2,265,510	2,557,000	2,899,296	22,915,589
New York.....	30,544,061	42,473,687	43,344,695	43,927,000	56,251,704	264,072,611
North Carolina..	14,024,303	13,903,646	14,769,602	16,482,000	18,359,084	143,526,869
North Dakota...	2,030,238	1,835,712	1,923,951	2,262,000	2,322,611	19,915,144
Ohio.....	39,328,053	34,269,179	33,939,981	37,618,000	39,168,786	322,551,234
Oklahoma.....	11,665,432	9,661,097	10,064,685	10,817,000	11,873,923	107,481,650
Oregon.....	6,186,918	5,591,175	6,343,891	7,252,000	7,938,443	65,280,821
Pennsylvania..	32,452,677	30,289,915	30,739,117	33,409,000	40,706,631	316,529,478
Rhode Island..	1,892,635	1,854,025	1,880,972	2,057,000	2,102,500	15,990,690
South Carolina..	7,245,989	6,224,927	6,679,326	7,719,000	8,584,144	74,017,835
South Dakota...	3,394,675	2,963,348	3,346,015	3,765,000	4,200,994	36,181,836
Tennessee.....	11,461,023	12,185,360	12,979,882	14,114,000	14,966,016	105,627,309
Texas.....	30,514,558	27,063,758	28,479,350	31,640,000	33,598,821	252,064,909
Utah.....	2,309,227	2,171,912	2,188,968	2,514,000	2,713,678	22,626,028
Vermont.....	1,966,544	1,874,648	1,766,152	1,942,000	2,048,561	161,670,257
Virginia.....	11,445,215	10,809,600	11,082,040	12,477,000	13,340,505	109,872,130
Washington....	11,032,462	11,046,510	10,863,214	11,959,000	12,557,308	90,610,749
West Virginia..	5,387,217	4,941,791	4,919,664	5,696,000	6,095,663	52,286,502
Wisconsin.....	15,780,181	14,948,420	15,169,426	15,399,000	16,071,207	115,293,468
Wyoming.....	1,587,014	1,418,145	1,405,415	1,764,000	1,929,650	13,934,883
Total.....	\$536,397,458	\$513,047,239	\$518,195,712	\$565,027,000	\$616,851,671	\$4,712,969,961

\$322,776,000 State Motor

(Preliminary figures subject to correction, compiled from state authorities by

STATE	MOTOR VEHICLE FEES				REGISTRATION FEES, OTHER VEHICLES		Total Registra- tion Fees, All Vehicles
	Total Receipts, Regist. Fees, etc.	Total Cars and Trucks	Pass. Cars	Motor Trucks	Trailers and Semi- Trailers	Motor- Cycles	
Ala. ¹	\$3,527,781	\$3,511,864					\$3,511,864
Ariz.	848,146	652,827	\$326,020	\$326,807	\$35,917	\$1,238	689,982
Ark.	2,525,672	2,153,216	1,370,069	783,147	204,496	923	2,358,635
Calif.	10,562,502	8,668,948	5,741,640	2,927,308	545,287	27,427	9,241,662
Colo.	2,206,930	1,680,986	1,297,454	383,532	15,600	1,539	1,698,125
Conn. ⁴	8,392,408	6,525,178	4,875,823	1,649,355	15,290	8,605	6,549,073
Del.	1,011,520	762,371	520,170	242,201	20,278	887	783,536
Fla.	4,934,774	4,515,227	3,228,200	1,287,027	127,468	5,099	4,647,794
Ga.	1,248,278	1,179,347	982,023	197,324	31,494	2,850	1,213,691
Idaho.	1,879,602	1,727,094	1,246,194	480,900	22,362	2,035	1,751,491
Ill.	19,075,621	17,427,427	13,090,610	4,336,817	120,147	16,122	17,563,696
Ind.	8,284,904	6,464,590	4,794,247	1,670,343	242,552	5,678	6,712,820
Iowa ⁵	9,921,731	9,498,297	7,105,178	2,393,119	64,412	6,655	9,569,364
Kans.	3,495,576	3,306,845	2,570,920	735,925	47,920	3,381	3,358,146
Ky.	3,507,149	3,029,761	2,029,435	1,000,326		2,282	3,032,043
La.	3,563,380	3,167,527	2,294,139	873,388	313,991	3,169	3,484,687
Maine.	3,269,770	2,526,971	1,747,279	779,692	36,551	5,070	2,568,592
Md.	4,099,850	2,885,996	2,355,522	530,474	78,116	7,006	2,971,118
Mass.	6,320,396	3,853,802	2,571,108	1,282,694	25,634	1,863	3,881,299
Mich.	17,594,582	14,815,383	10,432,998	4,382,387	714,170	11,423	15,540,978
Minn.	7,175,323	6,790,132	5,175,253	1,614,879	197,809	5,744	6,993,685
Miss.	1,740,856	1,707,370 ¹					1,707,370
Mo.	8,350,511	7,368,870	6,212,828	1,156,042	90,645	8,319	7,467,834
Mont.	1,271,299	1,177,696	893,360	284,336	2,256	380	1,180,332
Neb.	1,998,644	1,826,414	1,178,317	648,097	28,020	1,708	1,856,142
Nev.	262,464	241,793	140,217	101,576	7,334	473	249,600
N. H.	1,649,660	1,197,576 ¹				4,955	1,202,531
N. J.	16,629,209	11,766,467	8,158,437	3,608,030	163,335	9,652	11,939,454
N. Mex.	1,108,714	1,021,679	668,306	353,373	12,899	695	1,035,273
N. Y.	43,453,082	38,149,203	27,578,741	10,570,462	362,089	46,732	38,558,024
N. C.	6,614,212	6,451,069	4,577,253	1,873,816		4,857	6,455,926
N. D.	1,381,482	1,305,991	980,707	325,284	3,023	1,348	1,310,362
Ohio ⁶	22,153,123	20,090,909	13,263,265	6,827,644	784,169	28,146	20,903,224
Okla.	3,861,366	3,283,249	2,188,100	1,095,149	95,824	3,791	3,382,864
Oregon	2,761,904	2,153,637	1,287,755	865,882	42,892	4,410	2,200,393
Pa.	32,155,367	23,667,919	16,235,424	7,432,495	244,397	27,980	23,940,296
R. I.	2,416,154	1,921,440	1,469,348	452,092	1,699	2,653	1,925,792
S. C. ⁷	1,848,510	1,549,703	1,220,281	329,422	35,321	1,214	1,586,238
So. Dak.	1,371,026	1,309,875	1,134,330	175,545	18,408	426	1,328,709
Tenn.	3,657,572	3,489,953 ¹					3,489,953
Texas ⁸	15,788,234	14,923,639	10,072,846	4,850,793	329,849	15,147	15,268,635
Utah.	1,071,489	957,712	636,945	320,767	16,196	993	974,901
Vt. ⁹	2,300,049	1,960,938	1,440,324	520,614	5,687	3,701	1,970,326
Va. ¹⁰	5,150,755	4,573,517	3,384,626	1,188,891	36,069	5,137	4,614,723
Wash.	3,515,175	2,598,769	1,230,177	1,368,592	152,311	4,690	2,755,770
W. Va.	4,514,993	3,584,394	2,993,002	591,392	48,822	4,657	3,637,873
Wisc.	10,897,032	10,497,960	7,853,484	2,644,476	212,864	12,807	10,723,631
Wy.	482,888	448,190	296,851	151,339	21,598	429	470,217
D. of Col.	904,901	176,169	153,894	22,275	1,377	675	178,221
Detailed Totals.			189,003,100	75,636,029	5,576,578	314,971	280,437,441
Grand Totals	322,776,536	274,545,892					

¹—No segregation of passenger car and truck fees is available.

²—Year Sept. 30, 1935. ⁴—Period Jan. 1, 1935 to Feb. 2, 1936.

⁸—Year ending Nov. 30, 1935.

⁶—Period Jan. 1, 1935 to Mar. 31, 1936. ⁷—Year ending Oct. 31, 1935.

⁹—Year ending Mar. 31, 1936.

¹⁰—Jan. 1, 1935 to Mar. 31, 1936. ¹⁰—Year ending Mar. 31, 1936.

Motor Vehicle Registration Fees, 1935

Statistics by the United States Bureau of Public Roads, calendar year except as noted)

MISCELLANEOUS RECEIPTS							
Total	Dealers' Licenses and Plates	Operators' and Chauffeurs' Permits	Certificates of Title	Fines and Penalties	Transfer or Reregistration Fees	Other Miscellaneous	STATE
\$15,917				\$11,177		\$4,740	Ala.
158,164	\$3,352	\$27,273	\$63,226	3,262	\$26,570	34,481	Ariz.
167,937	17,987	115,675		4,907	6,515	21,953	Ark.
1,320,840	37,439	100,403		87,390	1,021,534	74,074	Calif.
508,805	22,449	34,490	140,196	1,531	53,222	256,917	Colo.
1,843,335	85,653	1,352,315		179,621	109,416	116,330	Conn.
227,984	5,685	115,143	32,976	56,549		17,631	Del.
306,990	18,599	5,610	168,952		9,092	14,717	Fla.
34,587	5,814	13,516			6,973	8,284	Ga.
128,111	25,890	91,775				10,446	Idaho
1,511,925	86,546	268,253	416,700		463,016	277,410	Ill.
1,572,084 ²	45,406	510,450	212,132	42,088	384,296	64,543	Ind.
352,367	47,720	51,844		1,115	180,592	71,096	Iowa
137,430	21,557	31,995			62,880	20,998	Kans.
475,106 ²	22,836	61,119		798	131,490	2,417	Ky.
78,693	13,365	66,404		7,136		-8,212	La.
701,178	29,980	496,298		23,200	115,739	35,961	Maine
1,128,732	36,418	264,736	497,600	198,858	101,705	29,415	Md.
2,439,097	63,763	2,307,992				67,342	Mass.
2,053,574	64,812	867,662	704,651		296,043	120,406	Mich.
181,638	37,340	117,239	296	1,530		25,233	Minn.
33,486	2,021			29,555		1,910	Miss.
882,677	68,114	167,400	369,954		248,622	28,587	Mo.
90,967	16,225	348	31,051		34,673	8,670	Mont.
142,502	11,524	21,240			103,612	6,126	Neb.
12,864	2,531			269	8,180	1,884	Nev.
447,129	11,670	344,154		76,679		14,626	N. H.
4,689,755	59,290	3,393,589	540,458	134,819	205,791	355,808	N. J.
73,441	6,937			2,077	17,936	46,491	N. Mex.
4,895,058	182,744	3,033,683		405,764	1,024,508	248,359	N. Y.
158,286		27,008	152,174			-20,896	N. C.
71,120	15,001		23,300		29,783	3,036	N. D.
1,249,899 ²	119,450	192,000		38,161	589,490	32,217	Ohio
478,502	36,820		246,721			194,961	Okla.
560,965	18,247	372,655	139,566			30,497	Oreg.
8,215,071	324,970	4,776,822	1,572,086	396,092	936,305	208,796	Pa.
490,362	16,200	368,448			44,183	61,531	R. I.
262,272	14,199	171,277		27,447	17,554	31,795	S. C.
42,317	13,110		22,193			7,014	S. Dak.
167,619				31,642		11,907	Tenn.
519,599	41,465	148,500			185,564	144,070	Texas
96,588	12,524	18,368	35,366	3,082	18,641	8,607	Utah
329,723	24,252	248,804			51,382	5,285	Vt.
536,032	48,747	67,779	230,056		149,762	39,688	Va.
759,405	9,062	507,272	117,898			9,404	Wash.
877,120	39,548	156,058	615,754		49,634	16,126	W. Va.
173,401	25,151	25,684			174,990	-52,424	Wisc.
12,671	6,493				5,492	686	Wy.
726,680	4,561	301,808	95,270	280,408	31,580	13,053	D. of C.
							Detailed Totals
42,339,095 ¹	1,823,467	21,243,089	6,428,576	2,045,157	6,896,765	2,723,996	Grand Totals

¹—Includes service charges by local collectors not shown in any of the columns.

\$616,851,000 State Gas Taxes in 1935

(Compiled for calendar year from reports of state authorities, by the U. S. Bureau of Public Roads)¹

RECEIPTS FROM TAXATION OF MOTOR FUEL OTHER RECEIPTS IN CONNECTION WITH MOTOR-FUEL TAX

State	Gross Receipts	Refunds Paid	Net Receipts	Dealers' License	Inspection Fees ²	Fines and Penalties	Miscellaneous Receipts ³	Total	Net Total Receipts
Ala.....	\$10,269,346		\$10,269,346	\$75	43,691			\$43,766	\$10,313,112
Ariz.....	3,833,502	\$555,618	3,277,884	250		\$464		714	3,278,598
Ark.....	8,193,647	441	8,193,206		68,118		\$583	68,701	8,261,907
Calif.....	43,701,052	3,729,647	39,971,405	12,550				12,550	39,983,955
Colo.....	6,814,599	805,066	6,009,533						6,009,533
Conn.....	5,730,777	112,654	5,618,123	53,721				53,721	5,671,844
Del.....	1,550,441	74,009	1,476,432	2,627			2,760	5,387	1,481,819
Fla.....	17,865,732		17,865,732	31,240				31,240	17,896,972
Ga.....	15,771,723		15,771,723						15,771,723
Idaho.....	3,469,195	346,451	3,122,744	415		21	1,117	1,553	3,124,297
Ill.....	31,698,969	1,638,805	30,060,164		322,271	2,947		325,218	30,385,382
Ind.....	20,178,070	1,314,282	18,863,788	49	398,482			398,531	19,262,319
Iowa.....	12,606,917	1,058,282	11,548,635	116			367	483	11,549,118
Kans.....	8,830,647		8,830,647	5,215	84,533		40,795	130,543	8,961,190
Ky.....	9,835,518		9,835,518			400		400	9,835,918
La.....	9,345,458	15	9,345,443		71,047	479		71,526	9,416,969
Me.....	4,731,244	158,678	4,572,566			230	31	261	4,572,827
Md.....	8,808,402	530,377	8,278,025						8,278,025
Mass.....	18,056,530	722,440	17,334,090						17,334,090
Mich.....	24,030,000	1,244,558	22,785,442	4,330			789	5,119	22,790,561
Minn.....	12,770,262	1,643,552	11,126,710	986	234,562			235,548	11,362,258
Miss.....	8,368,277	856,102	7,512,175	195				195	7,512,370
Mo.....	10,025,641	296,233	9,729,408		105,585	10,308		115,893	9,845,301
Mont.....	4,740,461	895,919	3,844,542						3,844,542
Neb.....	9,860,659	148,473	9,712,186		95,514	1,034		96,548	9,808,734
Nev.....	1,048,175	86,331	961,844	174		22		196	962,040
N. H.....	2,944,615	70,449	2,868,166					25,642	2,893,808
N. J.....	18,341,548	\$162,088	18,179,460	25,642				25,642	18,205,102
New Mex.	3,104,009	244,713	2,859,296	18,309				18,309	2,877,605
N. Y.....	57,659,473	1,407,769	56,251,704	59,541				59,541	56,311,245
No. Car.....	18,745,078	385,994	18,359,084		782,457		5,474	787,931	19,147,015
No. Dak.....	3,329,689	1,007,078	2,322,611	776				776	2,323,387
Ohio.....	40,760,442	1,591,656	39,168,786	365				365	39,169,151
Okl.....	12,430,214	556,291	11,873,923			3,228		3,228	11,877,151
Oregon.....	9,059,398	1,120,955	7,938,443				4,410	4,410	7,942,853
Pa.....	40,706,631		40,706,631			13	2,196	2,209	40,708,840
R. I.....	2,259,538	157,038	2,102,500	3,704				3,704	2,106,204
So. Car.....	8,717,032	132,888	8,584,144						8,584,144
So. Dak.....	4,505,370	304,376	4,200,994		114,425			114,425	4,315,419
Tenn.....	14,966,020	4	14,966,016						14,966,016
Texas.....	37,640,751	4,041,930	33,598,821				7,264	7,264	33,606,085
Utah.....	2,713,678		2,713,678	589		74		663	2,714,341
Vt.....	2,048,561		2,048,561			84		84	2,048,645
Va.....	14,133,860	793,355	13,340,505						13,340,505
Wash.....	13,661,809	1,104,501	12,557,308	10,692		379		11,071	12,568,379
W. Va.....	6,341,406	245,743	6,095,663	7,278				7,278	6,102,941
Wis.....	17,509,969	1,438,762	16,071,207		178,540			178,540	16,249,747
Wyom.....	1,929,650		1,929,650	2,262				2,262	1,931,912
Dist. of Col.	2,208,323	11,114	2,197,209						2,197,209
Total..	647,852,308	31,000,637	616,851,671	241,101	2,499,225	19,683	65,786	2,825,795	619,677,466

¹—Former issues of Table G-1 were based on the reported earnings or assessments of the calendar year. The amounts given in this table represent actual collections of the calendar year.

²—Inspection fees are imposed in Florida, Nevada, North Dakota, Oklahoma, South Carolina, and Tennessee, but the receipts from these fees were not reported.

³—Includes fees for motor-fuel carrier permits, refund or exemption permits, interest on deposits, and miscellaneous unclassified receipts. ⁴—Includes inspection fees on kerosene, amount not reported.

⁵—A special tax of 3 cents per gallon in Hancock County and 2 cents per gallon in Harrison and Jackson Counties is imposed for sea-wall protection. The receipts from these taxes were \$133,954 in 1935. These receipts are distributed back to the respective counties.

⁶—Although refund law became effective on July 1, no refunds were actually paid until November. Prior to July 1 the law provided for exemptions rather than refunds for non-motor-vehicle use.

⁷—Amounts tabulated include proceeds of 1-cent tax on all liquid fuels, including kerosene and fuel oil. Gross receipts from this tax, \$10,676,819; refunds, \$92,266; net receipts, \$10,584,553. Amount paid on non-motor-vehicle fuels not reported separately.

Motor Fuel Consumption and Exemptions, 1935

(Preliminary Figures, Compiled by U. S. Bureau of Public Roads)¹

THOUSANDS OF GALLONS	Gross Amount Assessed to Refund for of Entire Taxation Tax	Net Amount Subject to Tax Tax was Earned	Amount Taxed at Full Rate	Amount Taxed at Reduced Rates Per Gallon Amount	Approx. Amount Taxed for Highway Use ² 1935 1934	Percent Change
Ala.....	172,474	172,474	172,474	.....	*172,474	*154,977 +11.3
Ariz.....	78,359	11,036	67,323	.....	67,323	60,565 +11.1
Ark.....	131,784	.....	131,784	120,294	*131,784	*119,680 +11.4
Calif.....	1,464,458	124,321	1,340,137	1,340,137	1,340,137	1,198,655 +11.8
Colo.....	174,796	22,472	152,324	152,324	152,324	143,290 +6.3
Conn.....	269,909	6,128	263,781	263,781	263,781	248,658 +6.1
Del.....	45,086	2,137	42,948	42,948	42,948	39,514 +8.7
Fla.....	256,609	.....	256,609	256,609	*256,609	*235,698 +8.9
Ga.....	264,617	.....	264,617	264,617	*264,617	*239,435 +10.5
Idaho.....	70,310	6,352	63,958	63,743	63,743	57,300 +11.2
Ill.....	1,069,242	54,223	1,015,019	1,015,019	1,015,019	970,874 +4.5
Ind.....	504,867	32,857	472,010	472,010	472,010	438,743 +7.6
Iowa.....	421,765	35,276	386,489	386,489	386,489	374,998 +3.1
Kansas.....	295,308	.....	295,308	295,308	295,308	283,876 +4.0
Ky.....	201,324	.....	201,324	201,324	*201,324	*184,369 +9.2
La.....	186,201	.....	186,201	186,201	*186,201	*178,434 +4.4
Maine.....	119,821	.....	119,821	114,532	1	114,532 110,924 +3.3
Md.....	217,665	12,815	204,850	203,072	3	204,850 195,663 +4.7
Mass.....	608,021	23,788	584,233	584,233	.....	584,233 566,735 +3.1
Mich.....	809,472	41,485	767,987	767,987	18	767,987 698,681 +9.9
Minn.....	429,486	54,785	374,701	374,701	.....	374,701 361,512 +3.6
Miss.....	140,808	.....	140,808	123,291	1	123,291 112,666 +9.4
Mo.....	512,654	14,304	498,350	498,350	117,517	498,350 478,764 +4.1
Mont.....	95,739	18,346	77,393	77,393	.....	77,393 73,271 +5.6
Neb.....	222,584	3,419	219,165	219,165	.....	*219,165 *214,257 +2.3
Nev.....	265,209	2,163	24,046	24,046	.....	24,046 22,355 +7.6
N. H.....	73,903	1,911	71,992	71,992	.....	71,992 68,641 +4.9
N. J.....	621,031	126,569	594,462	594,432	2	594,432 567,727 +4.7
New Mex.....	62,881	4,894	57,987	57,987	.....	57,987 51,134 +12.4
N. Y.....	1,537,475	41,612	1,495,863	1,495,863	.....	1,495,863 1,464,242 +3.3
No. Car.....	312,012	.....	312,012	305,579	1	305,579 273,686 +11.7
No. Dak.....	112,446	33,569	78,877	78,877	16,433	78,877 75,390 +4.6
Ohio.....	1,014,925	10,829	1,004,096	965,240	1	965,240 910,214 +6.0
Okla.....	314,558	14,965	299,593	299,593	.....	299,593 270,432 +10.8
Oregon.....	183,005	21,812	161,193	160,434	1	160,434 144,917 +10.7
Pa.....	1,171,439	.....	1,171,439	1,171,439	.....	*1,171,439 *1,113,629 +5.2
R. I.....	114,754	8,621	106,133	106,133	.....	106,133 102,834 +3.2
So. Car.....	143,014	.....	143,014	143,014	.....	*143,014 *128,646 +11.2
So. Dak.....	112,634	.....	112,634	97,415	2	97,415 89,245 +9.2
Tenn.....	216,395	9	216,386	216,386	.....	*216,386 *201,627 +7.3
Texas.....	934,453	98,511	835,942	835,942	.....	835,942 791,005 +5.7
Utah.....	69,396	.....	69,396	69,396	.....	*69,396 *62,858 +10.4
Va.....	288,036	15,867	272,169	272,169	.....	*272,169 *249,540 +9.1
Wash.....	274,691	22,090	252,601	252,601	.....	252,601 239,187 +5.6
W. Va.....	159,120	6,015	153,105	153,105	.....	153,105 142,393 +7.5
Wis.....	442,436	36,527	405,909	405,909	.....	405,909 384,981 +5.4
Wy.....	48,241	796	47,445	47,445	.....	*47,445 *44,111 +7.6
Dist. of Col.	112,539	556	111,983	111,983	.....	111,983 103,129 +8.6

Total..... 17,160,339 811,060 16,349,279 16,251,693..... 97,586 12,264,961 15,292,012 +6.4

¹—A more accurate analysis of motor-fuel consumption during 1935 will be issued later. The amounts tabulated as "subject to refund" represent, for the majority of states, the amounts on which refunds were paid or allowed during the year, rather than the amounts of fuel subject to refund which were purchased or consumed during the year.

²—Thirteen states do not provide for exemptions or refunds for non-highway uses. The amounts entered for these states, indicated by stars, include both highway and non-highway uses.

³—Within 300 feet of border tax rate is same as that of adjacent state. Gallons taxed at 2 cents, 1,836,000; at 4 cents 9,084,000; at 5 cents, 570,000. ⁴—Estimated by state.

⁵—As the 1935 figures represent both highway and non-highway use they are not comparable with the 1934 figures. The percentage increase, based on the net amount taxed, was 4.9 per cent.

⁶—Motor fuel used in aviation. ⁷—Three cents per gallon refunded on non-highway uses.

⁸—One cent per gallon refunded on motor fuel used in vehicles licensed to operate exclusively in cities.

⁹—One and one-half cents per gallon refunded on motor fuel used in interstate aviation. Amount not reported. ¹⁰—Five cents per gallon refunded on non-highway uses.

¹¹—Prior to July 1, non-highway uses were exempted from initial payment of the tax. Beginning July 1, refunds were allowed. ¹²—One cent per gallon refunded, prior to July 1, on Motor fuel used in pleasure boats.

¹³—Does not include 63,535,000 gallons of liquid fuel (kerosene, fuel oil, etc.) taxed at 1 cent per gallon but not subject to the 3-cent tax on motor-vehicle fuel. ¹⁴—Prior to March 10, agricultural uses were exempted from initial payment of the tax. Beginning March 10, refunds were allowed. ¹⁵—Four cents per gallon refunded on motor fuel used in aviation. ¹⁶—Two cents per gallon refunded on non-highway uses.

28% of Gasoline Costs Represents Taxes



6 Percent Increase in 1935 Gasoline Consumption

(Figures from the American Petroleum Industries Committee)

TAXED GASOLINE				TAXED GASOLINE			
Gallons (000 omitted)		Percent		Gallons (000 omitted)		Percent	
1934	1935	Change		1934	1935	Change	
		From 1934				From 1934	
Ala.....	155,047	172,477	+11.2	Neb.....	223,372	226,673	+ 1.5
Ariz.....	73,219	80,994	+16.2	Nev.....	24,707	26,541	+ 7.4
Ark.....	140,156	143,379	+ 2.3	N. H.....	70,640	73,904	+ 4.6
Calif.....	1,334,177	1,480,008	+10.9	N. J.....	734,521	735,771	+ 0.1
Colo.....	172,756	184,442	+ 6.8	N. Mex....	56,154	62,340	+11.0
Conn.....	254,933	269,399	+ 5.7	N. Y.....	1,569,195	1,610,544	+ 2.6
Dela.....	41,556	45,104	+ 8.5	N. C.....	279,796	309,800	+10.7
D. of Col..	103,734	112,540	+ 8.5	No. Dak...	102,931	120,077	+16.7
Fla.....	236,775	263,010	+11.1	Ohio.....	955,470	1,014,926	+ 6.2
Ga.....	239,498	264,618	+10.5	Okla.....	300,431	327,551	+ 9.0
Idaho.....	65,770	72,352	+10.0	Ore.....	165,978	183,005	+10.3
Ill.....	1,025,918	1,069,243	+ 4.2	Penn.....	1,136,344	1,171,438	+ 3.1
Ind.....	465,438	496,835	+ 6.7	R. I.....	108,864	114,786	+ 5.4
Iowa.....	403,803	421,152	+ 4.3	So. Carl...	132,347	144,729	+ 9.4
Kan.....	378,781	409,941	+ 8.2	So. Dak....	109,514	118,967	+ 8.6
Ky.....	184,367	201,325	+ 9.2	Tenn.....	212,037	224,355	+ 5.8
La.....	178,457	185,851	+ 4.1	Tex.....	875,034	942,268	+ 7.7
Me.....	116,993	120,879	+ 3.3	Utah.....	64,140	71,121	+10.9
Md.....	206,279	217,266	+ 5.3	Vt.....	48,550	51,388	+ 5.8
Mass.....	587,789	612,557	+ 4.2	Va.....	259,123	282,436	+ 9.0
Mich.....	781,971	862,367	+12.8	Wash.....	260,778	273,586	+ 4.9
Minn.....	431,545	456,444	+ 5.8	W. Va.....	147,609	159,090	+ 7.8
Miss.....	131,263	147,335	+12.3	Wis.....	420,725	442,444	+ 5.2
Mo.....	489,401	509,061	+ 4.0	Wyoming...	43,986	49,498	+12.5
Mont.....	85,484	96,326	+12.7				
				Total.....	16,587,356	17,632,143	+6.3

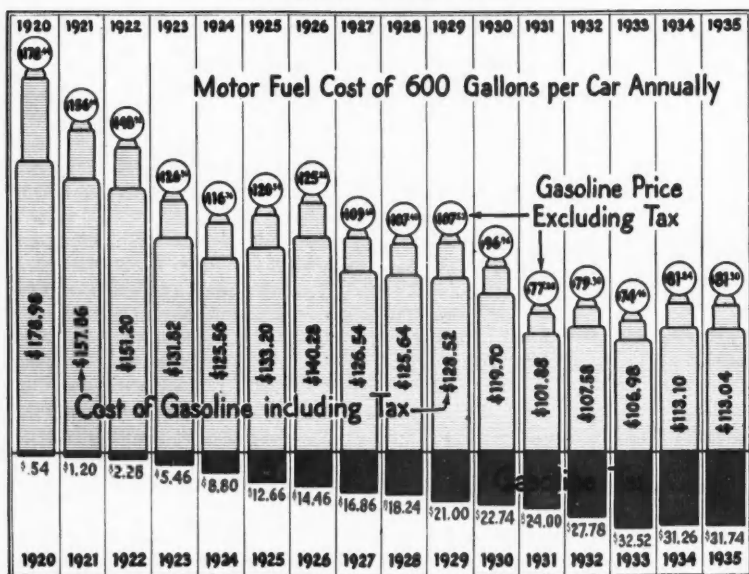
Gasoline Tax Rates by States

Figures show cents per gallon levied by states. Federal, county and municipal gas taxes are not included.

	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
Ala.....	0-2	2	2	2	2-4	4	4	4	4-5	5-6	6	6	6	6
Ariz.....	1-3	3	3	3	3-4	4	4	4	4-5	5	5	5	5	5
Ark.....	1-3	4	4	4	4-5	5	5	5	5-6	6	6	6-6½	6½	6½
Calif.....	0-2	2	2	2	2-3	3	3	3	3	3	3	3	3	3
Colo.....	1-2	2	2	2	2-3	3	3-4	4	4	4	4	4-4½	4	4
Conn.....	1	1	1-2	2	2	2	2	2	2	2	2	2	2-3	3
Delaware..	0-1	1	2	2	2-3	3	3	3	3	3	3	3	3-4	4
Florida...	1-3	3	3-4	4	4-5	5	5-6	6	6-7	7	7	7	7	7
Georgia...	1-3	3	3-3½	3½	3½-4	4	4-6	6	6	6	6	6	6	6
Idaho.....	0-2	2	2-3	3	3-4	4	4	4-5	5	5	5	5	5	5
Illinois...	..	..	..	..	0-2	2-0	0-3	3	3	3	3	3	3	3
Indiana...	0-2	2	2-3	3	3	3	3-4	4	4	4	4	4	4	4
Iowa.....	..	..	0-2	2	2-3	3	3	3	3	3	3	3	3	3
Kansas...	..	..	0-2	2	2	2-3	3	3	3	3	3	3	3	3
Kentucky..	1	1-3	3	5	5	5	5	5	5	5	5	5	5	5
Louisiana..	1	1-2	2	2	2	2	2-4	4-5	5	5	5	5	5	5
Maine.....	0-1	1	1-3	3	3-4	4	4	4	4	4	4	4	4	4
Maryland..	1	2	2	2	2-4	4	4	4	4	4	4	4	4	4
Mass.....	..	..	..	..	..	..	2	2-3	3	3	3	3	3	3
Michigan...	..	..	0-2	2	2-3	3	3	3	3	3	3	3	3	3
Minn.....	..	..	0-2	2	2	2	2-3	3	3	3	3	3	3	3
Miss.....	1	1-3	3	4	4	4-5	5	5-5½	5½	6	6	6	6	6
Missouri..	..	..	2	2	2	2	2	2	2	2	2	2	2	2
Montana...	1-2	2	2	2	2	3	3-5	5	5	5	5	5	5	5
Nebraska...	..	..	0-2	2	2	2	2-4	4	4	4	4	4	4-5	5
Nevada...	0-2	2	2-4	4	4	4	4	4	4	4	4	4	4	4
N. Hamp...	0-1	2	2	2	2-3	4	4	4	4	4	4	4	4	4
N. Jersey..	..	..	..	..	0-2	2	2	2-3	3	3	3	3	3	3
N. Mexico..	1	1-3	3	3-5	5	5	5	5	5	5	5	5	5	5
New York..	..	..	..	..	..	..	0-2	2	2	2-3	3	3	3-4	4-3*
N. Car....	1-3	3	3-4	4	4	4	4-5	5	5-6	6	6	6	6	6
N. Dak....	1	1	1	1-2	2	2	2-3	3	3	3	3	3	3	3
Ohio.....	..	..	0-2	2	2-3	3	3	3-4	4	4	4	4	4	4
Oklahoma..	0-1	1-2½	2½	3	3	3	3-4	4	4-5	4	4	4	4	4
Oregon...	2-3	3	3	3	3	3	3	4	4	4	4-5	5	5	5
Penn.....	1-2	2	2	2	2-3	3	3-4	4-3	3	3	3	3	3-4	4
R. Island..	..	..	0-1	1	1-2	2	2	2	2	2	2	2	2	2
S. Car....	2-3	3	3-5	5	5	5	5-6	6	6	6	6	6	6	6
So. Dak...	1-2	2	2-3	3	3-4	4	4	4	4	4	4	4	4	4
Tenn.....	0-2	2	2-3	3	3	3	3-5	5	5-6-7	7	7	7	7	7
Texas....	0-1	1	1	1	1-3	3-2	2-4	4	4	4	4	4	4	4
Utah.....	0-2½	2½	2½-3½	3½	3½	3½	3½	3½	3½-4	4	4	4	4	4
Vermont...	0-1	1	1-2	2	2	3	3-4	4	4	4	4	4	4	4
Virginia...	0-3	3	3	3-4½	4½	4½	5	5	5	5	5	5	5	5
Wash.....	1	2	2	2	2	2	2-3	3	3-5	5	5	5	5	5
W. Va....	0-2	2	2-3½	3½	3½-4	4	4	4	4	4	4	4	4	4
Wisconsin..	..	..	0-2	2	2	2	2	2	2-4	4	4	4	4	4
Wyoming...	0-1	1	1-2½	2½	2½-3	3	3-4	4	4	4	4	4	4	4
D. of C....	..	0-2	2	2	2	2	2	2	2	2	2	2	2	2

NOTE—The above table is corrected as of June 1st, 1936. *Reverts to 3 cents June 30, 1936.

Gasoline Taxes Represent Increasing Proportion of Motor Fuel Costs



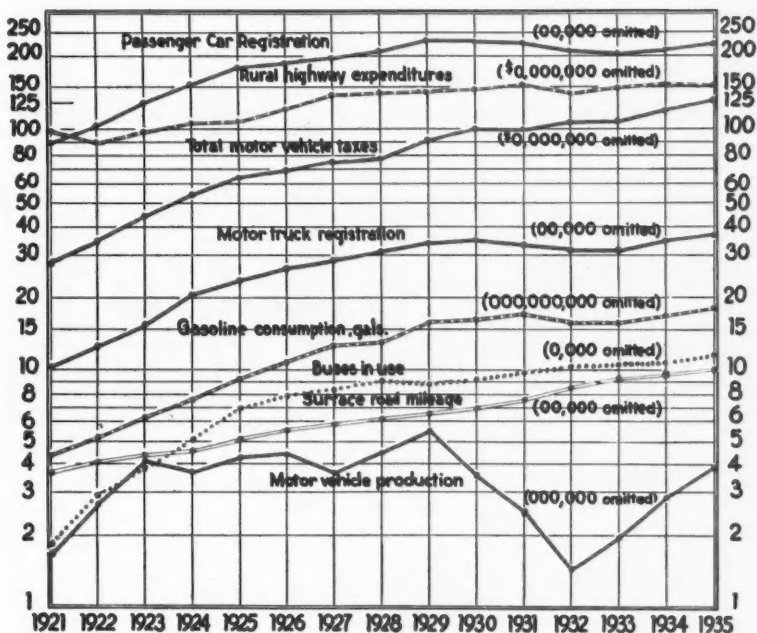
Gasoline Prices and Taxes 1919-1935

(Figures from American Petroleum Industries Committee)

50 Representative Cities, Average First of Month, in Cents per Gallon

	Tank Wagon (Ex. Tax)	Service Station (Ex. Tax)	State and Federal Gasoline Tax	Service Station (Inc. Tax)
1919.....	\$. 2411	\$. 2541	\$. 0006	\$. 2547
1920.....	.2805	.2974	.0009	.2983
1921.....	.2409	.2611	.0020	.2631
1922.....	.2263	.2482	.0038	.2520
1923.....	.1866	.2106	.0091	.2197
1924.....	.1686	.1946	.0148	.2094
1925.....	.1746	.2009	.0211	.2220
1926.....	.1842	.2097	.0241	.2338
1927.....	.1581	.1828	.0281	.2109
1928.....	.1561	.1790	.0304	.2094
1929.....	.1557	.1792	.0350	.2142
1930.....	.1449	.1616	.0379	.1995
1931.....	.1178	.1298	.0400	.1698
1932.....	.1245	.1330	.0463	.1793
1933.....	.1162	.1241	.0541	.1782
1934.....	.1226	.1364	.0520	.1884
1935.....	.1202	.1355	.0529	.1884

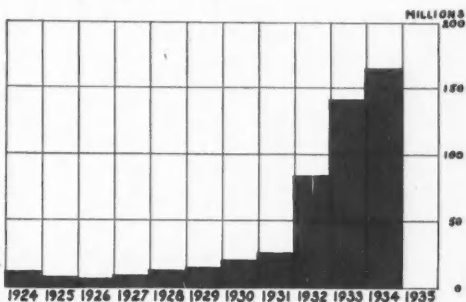
Motor Transportation Continues Progress



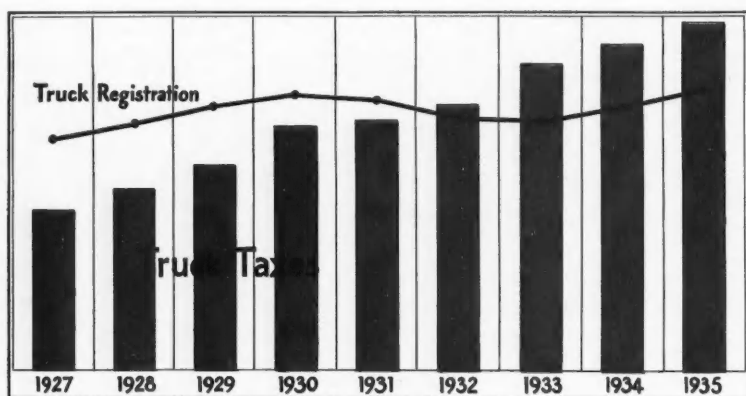
Motor License and Gas Taxes Diverted from Highway Use

(Source: National Highway Users Conference)

1924.....	\$10,728,830
1925.....	7,451,537
1926.....	6,247,717
1927.....	8,333,317
1928.....	11,981,560
1929.....	14,024,157
1930.....	19,485,534
1931.....	24,275,310
1932.....	82,832,171
1933.....	145,253,966
1934.....	163,731,214
1935.....	not available



1935 Motor Truck Taxes Set Record



1935 Special Truck Taxes \$329,900,000

Personal property taxes on trucks in operation, income and property taxes on garages, terminals, repair shops, and trucking companies are not included.

In Thousands of Dollars

	Regis- tration Fees (State)	Gas- line Tax (State)	Federal Excise Taxes	Special City & County Taxes	Miscel- laneous Taxes (State)	Total Special Taxes	Average Per Truck Registered
1927	\$64,691	\$75,108	.....	\$ 6,000	\$ 4,896	\$150,695	\$51.80
1928	69,400	87,161	.....	6,400	5,467	168,428	54.15
1929	72,823	108,506	.....	6,800	6,352	194,481	57.50
1930	78,789	138,055	.....	7,200	7,042	231,086	66.40
1931	76,616	144,756	.....	7,600	7,724	236,696	68.50
1932	74,046	139,376	\$23,537	8,000	7,360	252,319	78.25
1933	68,659	142,287	61,936	8,750	8,525	290,157	90.31
1934	71,852	154,170	63,038	9,000	10,768	308,828	90.92
1935	78,598	161,743	68,331	10,000	11,228	329,900	90.50

—Federal excise taxes effective June 21, 1932.

Special Motor Truck Taxes by States

State Registration Fees and State and Federal Gasoline Taxes on Trucks Are Shown

	1934			1935		
	State License Fees*	Gasoline Tax	1934 Total	State License Fees*	Gasoline Tax	1935 Total
Alabama.....	\$730,476 ¹	\$2,864,484	\$3,594,960	\$840,827 ¹	\$3,275,076	\$4,115,903
Arizona.....	350,100	1,208,952	1,559,052	390,244	1,253,408	1,643,652
Arkansas.....	786,540	3,105,900	3,892,440	1,019,881	3,609,630	4,629,511
California.....	3,174,540	11,402,688	14,577,228	3,628,454	12,187,584	15,816,038
Colorado.....	449,100	1,872,057	2,321,157	450,013	1,705,800	2,155,813
Connecticut.....	1,820,300	2,011,608	3,831,908	1,970,639	2,427,048	4,397,687
Delaware.....	264,180	450,912	715,092	302,376	523,368	825,744
Florida.....	1,312,560	5,314,464	6,627,024	1,449,210	5,491,104	6,940,314
Georgia.....	212,440	5,062,008	5,274,448	234,594	5,550,636	5,785,230
Idaho.....	433,050	1,285,992	1,719,042	526,450	1,538,712	2,065,162
Illinois.....	4,284,720	8,906,536	13,191,256	4,639,907	8,791,440	13,431,347
Indiana.....	1,949,450	7,367,460	9,316,910	2,158,140	7,966,020	10,124,160
Iowa.....	2,136,890	3,616,800	5,753,690	2,498,053	3,865,392	6,363,445
Kansas.....	748,420	3,627,120	4,375,540	803,772	3,796,800	4,600,572
Kentucky.....	922,960	2,696,040	3,619,000	1,059,714	3,140,136	4,199,850
Louisiana.....	1,329,760	3,224,088	4,553,848	1,204,770	4,276,656	5,481,426
Maine.....	950,170	2,261,580	3,211,750	963,490	2,284,740	3,248,230
Maryland.....	707,200	2,721,060	3,428,260	766,612	2,911,680	3,678,292
Massachusetts.....	1,604,680	4,728,384	6,333,064	1,618,093	4,819,728	6,437,821
Michigan.....	4,870,500	5,923,440	10,793,940	5,306,022	6,008,496	11,314,518
Minnesota.....	1,956,000	4,986,336	6,942,336	1,839,025	5,081,328	6,920,353
Mississippi.....	732,701 ¹	2,865,660	3,598,361	722,073 ¹	2,797,704	3,519,777
Missouri.....	1,163,520	3,877,524	5,041,044	1,379,971	4,169,484	5,549,455
Montana.....	232,600	2,238,264	2,470,864	308,242	2,559,024	2,867,266
Nebraska.....	654,450	3,393,600	4,048,050	696,780	3,307,024	4,003,804
Nevada.....	109,900	383,460	493,360	111,457	412,500	523,957
New Hampshire.....	626,214 ¹	1,342,920	1,969,134	593,709 ¹	1,384,860	1,978,569
New Jersey.....	4,117,180	5,920,848	10,038,028	4,427,931	5,993,568	10,421,499
New Mexico.....	287,320	1,160,064	1,447,384	380,373	1,313,640	1,694,013
New York.....	10,948,990	14,322,192	25,271,182	11,583,283	13,811,355	25,394,638
North Carolina.....	1,483,520	4,600,344	6,083,864	1,894,235	4,866,204	6,760,439
North Dakota.....	303,180	1,263,120	1,566,300	340,824	1,381,440	1,722,264
Ohio.....	7,010,210	9,590,700	16,600,910	7,736,803	9,716,040	17,452,843
Oklahoma.....	1,017,400	4,435,680	5,453,080	1,269,447	4,971,300	6,240,747
Oregon.....	1,379,550	2,981,592	4,361,142	990,114	3,066,048	4,056,162
Pennsylvania.....	8,155,400	10,320,768	18,476,168	8,670,916	9,619,092	18,290,008
Rhode Island.....	504,720	659,952	1,164,672	514,596	663,408	1,178,004
South Carolina.....	524,900	1,753,668	2,278,568	397,789	2,499,924	2,897,713
South Dakota.....	174,760	1,429,920	1,604,680	201,301	1,615,860	1,816,161
Tennessee.....	811,257 ¹	3,624,480	4,435,737	908,849 ¹	3,530,604	4,439,453
Texas.....	4,838,470	13,576,560	18,415,030	5,277,287	15,423,300	20,700,587
Utah.....	295,320	1,026,180	1,321,500	352,997	1,055,220	1,408,217
Vermont.....	521,000	516,720	1,037,720	562,900	541,860	1,104,760
Virginia.....	1,225,900	4,123,296	5,349,196	1,309,117	4,347,072	5,656,189
Washington.....	1,297,550	4,631,112	5,928,662	1,618,736	4,943,304	6,562,040
West Virginia.....	386,120	1,635,180	2,021,300	746,346	1,758,300	2,504,646
Wisconsin.....	2,595,680	7,210,800	9,806,480	2,887,165	7,808,640	10,695,805
Wyoming.....	154,000	786,120	940,120	175,573	875,580	1,051,153
Dist. of Col.....	74,600	621,468	696,068	98,500	633,960	732,460
U. S. Total..	\$82,620,448	\$194,930,101	\$277,550,549	\$89,826,600	\$205,611,097	\$295,437,697

*Includes trailer fees, proportion of dealers, operators, chauffeurs' permits and miscellaneous receipts.

¹ Estimated by multiplying U. S. average tax per truck, for those states segregating truck taxes, by the number of trucks registered.

No attempt has been made to estimate Federal excise taxes on new trucks (2% of wholesale value), parts and accessories (2%), lubricating oil (4 cts. a gallon), tires (2 1/4 cts a lb.), inner tubes (4 cts. a lb.). Nor has an estimate been included for special municipal and county gasoline taxes and registration fees on trucks effective in many states.

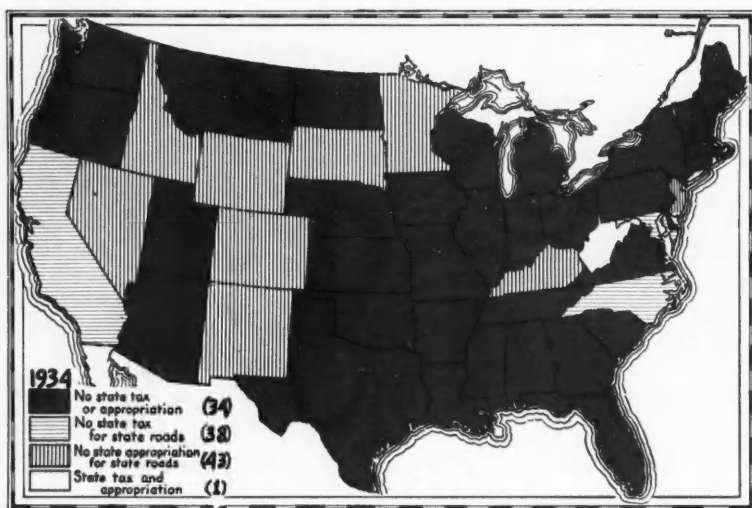
Personal property taxes and general sales taxes have likewise not been included. The table represents state registration fees and state and Federal gasoline taxes only.

The gasoline tax paid by trucks has been estimated by multiplying the trucks registered in each state by a yearly average consumption of 1200 gallons per truck, times the gas tax rate effective in each state plus Federal excise of 1 cent.

38 States Levied No General Property Taxes for State Highways in 1934

34 States Made No Special Appropriations or General Levies on Property for State Highways

(Data from Highway Income Tables Compiled by U. S. Bureau of Public Roads)



Revenue Buses Paid \$35,625,000 Special Taxes, 1935

(Figures from National Association of Motor Bus Operators)

	1931	1932	1933	1934	1935
Special taxes.....	\$32,525,000	\$34,500,000	\$33,470,000	\$33,300,000	\$35,625,000
General taxes.....	4,125,000	4,150,000	4,030,000	3,980,000	4,750,000
Total bus taxes.....	36,650,000	38,650,000	37,500,000	37,280,000	40,375,000
Special taxes per bus...	\$716	\$767	\$743.77	\$774.42	\$791.66
General taxes per bus..	\$91	\$92	\$89.65	\$92.56	\$105.56
Total taxes per bus...	\$807	\$859	\$833.33	\$866.98	\$897.22
Special tax per bus per mile of highway used..	\$88.62	\$90.93	\$81.64	\$82.91	\$89.05

1935 Export Summary

Foreign sales of motor vehicles of U. S. design . . 507,718

	Passenger Cars	Trucks	Total
U. S. Exports and Foreign assemblies }	210,367	124,474	334,841
Canadian Output . .	135,562	37,315	172,877
Total	345,929	161,789	507,718

Percent of American production sold outside the
United States (Including sales in Canada):

Cars	10.2%
Trucks	22.1%
Total	12.3%

World production of motor vehicles 5,126,680

	Motor Vehicles	% Increase over 1934
United States and Canada . .	4,119,811	44%
All other countries	1,006,869	16%

Value of United States and Canadian exports
(including tires, parts and accessories) \$262,505,122

	Number Cars and Trucks	Value including Repair Parts and Tires
United States . . .	334,841	\$229,624,836
Canada	64,330	\$ 32,880,286

Rank among United States exports of manufac-
tured products First

Leading export market (excepting Canada):

Passenger Cars	Union of South Africa
Motor Trucks	Japan

Motor vehicles imported into U. S. A. 591

World registration 37,235,987

U. S. registration (26,221,052), percent of world. 71%

Foreign Sales of American Motor Vehicles

Year	PASSENGER CARS			MOTOR TRUCKS			Total Motor Vehicles
	U. S. Exports Inc. Foreign Assemblies*	Canadian Output	Total Cars	U. S. Exports Inc. Foreign Assemblies*	Canadian Output	Total Trucks	
1925..	316,093	135,573	451,666	112,594	26,397	138,991	590,657
1926..	289,135	164,856	453,991	104,309	39,871	144,180	598,171
1927..	331,959	146,827	478,786	137,509	32,227	169,736	648,522
1928..	418,845	196,741	615,586	163,919	45,641	209,560	825,146
1929..	451,079	207,498	658,577	283,132	55,797	338,929	997,506
1930..	247,764	125,442	373,206	157,951	28,750	186,701	559,907
1931..	134,048	65,093	199,141	107,509	17,528	125,037	324,178
1932..	72,889	50,694	123,583	47,350	10,095	57,445	181,028
1933..	98,155	53,849	152,004	78,428	12,003	90,431	242,435
1934..	184,156	92,647	276,803	126,366	24,205	150,571	427,374
1935..	210,367	135,562	345,929	124,474	37,315	161,789	507,718

*Includes number of vehicles assembled abroad from parts produced in the United States. These foreign assemblies are also included in the factory sales figures compiled by the U. S. Census Bureau.

12% of American Cars Sold Outside United States

Year	Passenger Cars	Motor Trucks	Total	Year	Passenger Cars	Motor Trucks	Total
1921..	7.3%	10.7%	7.7%	1929..	13.7%	40.9%	17.7%
1922..	8.5%	10.6%	8.8%	1930..	12.8%	31.0%	15.9%
1923..	8.1%	18.1%	9.1%	1931..	9.8%	28.8%	13.1%
1924..	10.1%	21.5%	11.4%	1932..	10.4%	23.4%	12.6%
1925..	11.6%	24.9%	13.3%	1933..	9.3%	25.2%	12.2%
1926..	11.4%	25.8%	13.2%	1934..	12.2%	25.1%	14.9%
1927..	15.5%	34.1%	18.1%	1935..	10.2%	22.1%	12.3%
1928..	15.3%	35.5%	17.9%				

Value of Automotive Exports—U. S. and Canada

	1929	1932	1933	1934	1935
Passenger Cars					
United States ¹	\$239,626,014	\$25,632,918	\$33,945,464	\$80,604,563	\$99,342,411
Canada.....	29,824,433	4,282,666	6,812,989	12,988,365	16,885,736
Motor Trucks					
United States ¹	113,063,232	12,210,841	20,691,338	45,125,359	51,995,938
Canada.....	14,831,006	963,295	1,693,070	4,215,429	6,082,846
Parts and Accessories					
*United States ¹	170,952,592	37,503,084	30,971,622	48,883,430	65,249,041
Canada.....	2,350,232	1,846,033	1,337,302	2,415,222	2,925,667
Tires, Rubber					
United States ¹	42,179,505	12,049,278	11,717,813	13,521,185	13,037,446
Canada.....	18,807,717	3,249,399	3,581,505	6,537,760	6,986,037
Total					
United States.....	\$565,821,343	\$87,396,121	\$97,326,237	\$188,134,537	\$229,624,836
Canada.....	65,813,388	10,341,393	13,424,866	26,156,776	32,880,286
Grand Total.....	\$631,634,731	\$97,737,514	\$110,751,103	\$214,291,313	\$262,505,122

*Parts shipped to Canada for assembly have been deducted, but other "parts for assembly" have been included. ¹—Includes shipments to non-contiguous territories.

80% of World Motor Output in the United States and Canada

(Figures from Automotive-Aeronautics Trade Division, Department of Commerce)

	1934			1935		
	Passenger Cars	Trucks and Busses	Total	Passenger Cars	Trucks and Busses	Total
United States.....	2,177,919	575,192	2,753,111	3,252,244	694,690	3,946,934
Canada.....	92,647	24,205	116,852	135,562	37,315	172,877
U. S. and Canada.	2,270,566	599,397	2,869,963	3,387,806	732,005	4,119,811
Austria.....	975	380	1,355	1,788	721	2,509
Belgium.....	500	240	740	463	290	753
Czechoslovakia.....	9,110	890	10,000	9,195	783	9,978
Denmark.....	.....	182	182	.....	148	148
France.....	172,328	29,316	201,644	156,010	23,260	179,270
Germany.....	147,330	25,684	173,014	201,438	41,496	242,934
Hungary.....	19	203	222	.....	111	111
Italy.....	38,907	4,509	43,416	40,236	4,972	45,208
Japan.....	930 ¹	1,915	2,845	5,020 ²	1,780	6,800
Poland.....	200	600	800	488	300	788
Soviet Russia.....	17,100	55,366	72,466	19,200	77,800	97,000
Spain.....	100	730	830	96	495	591
Sweden.....	600	2,522	3,122	790	2,614	3,404
Switzerland.....	16	420	436	.....	460	460
United Kingdom....	265,672	89,134	354,806	325,194	91,721	416,915
Total Except U. S. and Canada....	653,787	212,091	865,878	759,918	246,951	1,006,869
World Total.....	2,924,353	811,488	3,735,841	4,147,724	978,956	5,126,680

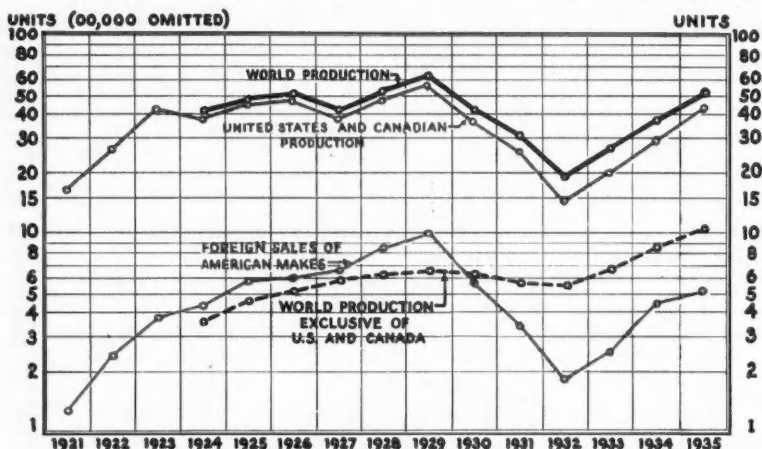
¹Including 895 small passenger and delivery cars. ²Includes 5,000 cycle cars.

World Motor Vehicle Registrations by Years†

Dec. 31	Outside United States	% Gain Yearly	United States	% Gain Yearly	World Total	% Gain Yearly	U. S. % of World
1916....	719,246	..	3,512,996	44	4,232,242	..	83
1919....	1,286,948	..	7,565,446	23	8,852,394	..	85
1920....	1,710,983	33	9,231,941	22	10,942,924	24	84
1921....	2,190,609	28	10,463,295	13	12,653,904	15	83
1922....	2,433,737	11	12,238,375	17	14,672,112	16	83
1923....	2,931,407	21	15,092,177	23	18,023,584	23	84
1924....	3,715,735	27	17,595,373	17	21,311,108	18	83
1925....	4,537,973	22	19,937,274	13	24,475,247	15	81
1926....	5,512,933	22	22,001,393	10	27,514,326	12	80
1927....	6,425,316	17	23,133,243	5	29,558,559	7	78
1928....	7,404,651	15	24,493,124	6	31,897,775	8	77
1929....	8,473,948	14	26,501,443	8	34,975,391	10	76
1930....	9,108,234	8	26,545,281	0.16	35,653,515	2	74
1931....	9,277,044	1.9	25,832,884	-2.5	35,109,928	-1.5	73
1932....	9,251,275	-2	24,115,129	-6.7	33,366,404	-5	72
1933....	9,505,032	2.8	23,843,591	-1.1	33,348,623	-0.05	72
1934....	10,191,521	7.0	24,933,403	4.6	35,124,924	5.3	71
1935....	11,014,935	8.0	26,221,052	5.2	37,235,987	6.1	70.5

†For tabulation by countries in 1935 see pages 82-84.

Foreign Markets for American Cars Recovering Rapidly



American foreign sales include passenger car and truck exports from U. S., Canadian production and assemblies abroad of vehicles from parts produced in the United States.

World Exports from Producing Countries

(Figures from Automotive-Aeronautics Trade Division, Department of Commerce)

	Production		Exports		Percent of Production Exported	
	1934	1935	1934	1935	1934	1935
United States.....	2,753,111	3,946,934	236,311*	271,383*	8.6%	6.9%
Canada.....	116,852	172,877	43,368	64,330	37.1	37.2
Sub-total.....	2,869,963	4,119,811	279,679	335,713	9.7	8.2
Austria.....	1,355	2,509	747	924	55.1	36.8
Belgium.....	740	753	159	113	21.4	15.0
Czechoslovakia.....	10,000	9,978	225	714	2.2	7.1
Denmark.....	182	148	.....	.....	.....	.....
France.....	201,644	179,270	24,987	18,921	12.3	10.5
Germany.....	173,014	242,934	13,236 ¹	23,396	7.6	9.6
Hungary.....	222	111	.....	.....	.....	.....
Italy.....	43,416	45,208	9,434	9,444 ²	21.7	20.8
Japan.....	2,845	6,800	349	1,361	12.2	20.0
Poland.....	800	788	46.9 ³	35.1 ³	.....	.....
Soviet Russia.....	72,466	97,000	307	858	.4	.88
Spain.....	830	591	.....	.....	.....	.....
Sweden.....	3,122	3,404	1,715 ⁴	1,858 ⁴	54.9	54.5
Switzerland.....	436	460	166	246	38.0	53.4
United Kingdom.....	354,806	416,915	57,649	68,205	16.2	16.3
Total excl. U. S. and Canada.....	865,878	1,006,869	108,974	126,040	12.5	12.5
World Total.....	3,735,841	5,126,680	388,653	461,753	10.4	9.0

* Does not include number of vehicles assembled abroad from parts produced in the United States.

¹ Revised. ² First 9 months of 1935. ³ Metric tons. Not included in totals. ⁴ Including exports of American cars assembled in Sweden, most of which are exported to Finland.

Reciprocal Trade Agreements Reduce Barriers

Country	Date in Effect	TARIFF REDUCTION				Increased Quota
		Pass. Cars	Trucks	Parts	Sur-tax	
Belgium.....	5-1-35	15%	.....	64-80% ¹	.....	.....
Brazil.....	1-1-36	20%	20%	20%	.....	.....
Canada.....	1-1-36	12½-20%	12½%	9-21%	.....	.....
Colombia.....	5-20-36	20-25%	50%	40%	.....	.....
Cuba.....	9-3-34	21-50%	6-22%	12½%	.....	.....
Finland.....	(⁵)	Bound	Bound	Bound	.....	.....
France.....	6-15-36	50% ²	.....	Bound ¹	.....	Passenger cars increased 50%; bodies & body parts 70%.
Guatemala...	6-15-36	Bound	Bound	.....	Eliminated	.....
Haiti.....	6-3-35	Bound	Bound	Bound	.....	.....
Honduras....	3-2-36	Agreed to maintain on free list				.....
Netherlands..	2-1-36	Bound	Bound	Bound	.....	.....
Nicaragua....	⁵	.....	.....	.....	.....	.....
Sweden.....	8-5-35	Bound ³	Bound	Bound ⁴	.....	.....
Switzerland..	2-15-36	Agreed not to increase present rates				100% increase

¹—Selected parts.

²—Applies to 3,062 quintals of chassis for passenger cars imported by French body builders. (1 quintal—220.4 pounds).

³—Chassis only.

⁴—If for manufacture or assembly.

⁵—Subject to ratification.

Notes—The tariff preference on automobiles granted by Cuba to the United States is now 25% instead of 20%.

A "bound" duty is frozen at existing levels, which in the above countries was low, and which is not to be increased for the life of the agreement.

Raw Materials Used in

Automobile Industry is Largest User of Steel

	Percent Used by Motor Industry	Rank as Consumer
Strip	57.1%	First
Bars	40.1%	First
Sheets	42.5%	First
Malleable iron	54.0%	First
Alloy steel †	72.2%	First
Steel, all forms	24.8%	First

	Amount Used in Manufacturing and Repairs
*Steel (gross tons)	6,075,000
Production of finished rolled steel	24,505,000
Percent used in automobile industry	24.8%
*Steel for highway construction (650,000 gross tons)	2.6%
Iron, malleable (tons)	290,500
Production	538,000
Per cent used in motor vehicles	54%
Gray iron (tons)	840,000
Production	4,400,000
Per cent used in motor vehicles	19%
Rubber, crude (long tons)	394,000
Total consumption in United States	491,544
Per cent used in motor vehicles	80%
Plate glass (square feet)	137,030,000
Production of polished plate glass	179,816,000
Per cent used in motor vehicles	76%
Leather, upholstery (square feet)	10,000,000
Production of upholstery leather	32,240,000
Per cent used in motor vehicles	31%
Aluminum (tons)	20,000
Total consumption in United States	100,000
Per cent used in motor vehicles	20%
Copper (tons)	115,000
Total consumption in United States	567,000
Per cent used	20%
Tin (long tons)	9,000
Total deliveries in United States	68,000
Per cent used in motor vehicles	13.2%
Lead (tons)	200,000
Total consumption in United States	543,200
Per cent used in motor vehicles	36.8%

* Figures from The Iron Age. Does not include tonnage sold by steel jobbers to repair shops or steel sold to automobile manufacturers in the form of bolts, nuts and rivets. † Figures from the magazine "Steel."

in Automobile Industry, 1935

Automobile Industry Largest Purchaser of Several Commodities

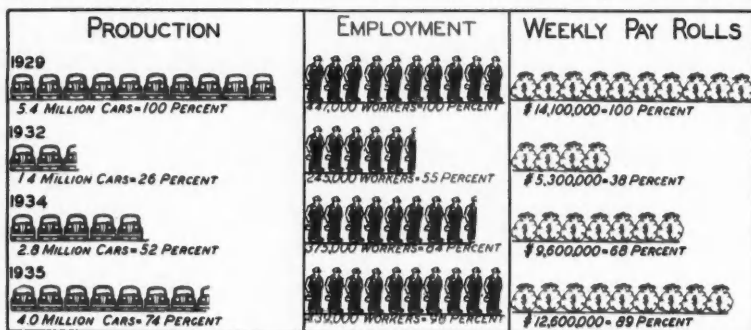
	Percent Used by Motor Industry	Rank as Consumer
Gasoline	89%	First
Lubricating oil	59%	First
Rubber	80%	First
Plate glass	76%	First
Nickel	31%	First
Lead	37%	First
Mohair	40%	First

	Amount Used in Manufacturing and Repairs
Zinc (tons)	74,000
Total consumption in United States	461,000
Per cent used in motor vehicles	16.1%
Nickel (pounds)	17,100,000
Total sales in United States	56,000,000
Per cent used in motor vehicles	30.5%
†Cotton (bales)	542,140
United States mill consumption	5,643,000
Per cent used in tire and motor vehicle manufacturing	9.6%
Mohair (pounds)	10,000,000
Production	28,000,000
Per cent used in automobile upholstery	40%
Lumber, hardwood (board feet)	280,000,000
Production of hardwoods	2,980,000,000
Per cent used in motor vehicles	9.5%
Lumber, softwood (board feet)	295,000,000
†Cloth, upholstery (yards)	46,750,000
†Paint and lacquer (gallons)	13,815,000
†Hair and padding (pounds)	51,680,000
<hr/>	
Gasoline (gallons)	16,250,000,000
Domestic consumption total	18,265,674,000
Per cent used by motorists (estimated)	89%
Lubricating oil (gallons)	486,000,000
Domestic consumption total	823,116,000
Per cent used by automobile industry	59%
Antifreeze solutions (gallons)	39,000,000
Brake lining (asbestos and cotton) linear feet	76,640,000
† United States motor vehicle manufacturing use only.	

1935 Automotive Employment 98% of 1929

While Production Reached Only 74% of 1929

(Chart reproduced from "Labor Information Bulletin," U. S. Bureau of Labor Statistics)



Average Employment and Total Earnings of Factory Wage Earners in Motor Vehicle and Motor Vehicle Bodies and Parts Plants

Year	Employment (Thousand Persons)	Payrolls (Million Dollars)	Year	Employment (Thousand Persons)	Payrolls (Million Dollars)
1919*	343	\$491	1928	435	\$747
1920	355	592	1929*	447	733
1921*	213	319	1930	323	431
1922	290	431	1931*	286	351
1923*	405	660	1932	245	278
1924	377	594	1933	241	281
1925*	426	714	1934	375	499
1926	422	688	1935	439	657
1927*	369	613			

* U. S. Census of Manufactures. Other years have been estimated by adjusting the Bureau of Labor Statistics monthly indices of employment and payrolls to the Census of Manufactures.

2,874,000 Persons Supported by Federal and State Highway Employment in August, 1935

(Source: U. S. Bureau of Public Roads, as of August 1935)

Road construction and maintenance ¹	382,846
Industrial or materials labor (estimated) ²	536,000
Administrative and supervisory.....	39,000

Total workers (local road employment excluded).....	957,846
Persons Supported, Assuming Family of Three.....	2,874,000

¹—Project pay roll names exceed men reported by 30 to 70 percent, depending upon weather and job requirements.

²—Estimate of workers producing and transporting materials and equipment for highway construction.

Millions of Jobs Created by Motor Transport

6,000,000 Employed Directly and Indirectly in 1935

One Out of Every Seven Gainfully Employed

State	Motor-Veh., Parts, Tires, Mfg. Petrol. Ref'ng. ¹	Sales, Ser- vicing ²	Fed. State Road ³	Truck Drivers ⁴	Bus Drivers ⁵	Total
Alabama.....	100	17,700	7,415	26,147	2,743	54,105
Arizona.....	0	7,300	2,595	14,902	946	25,743
Arkansas.....	700	12,800	3,851	31,789	1,634	50,774
California.....	20,800	114,500	9,655	200,912	6,780	352,647
Colorado.....	100	19,000	2,814	11,512	2,365	35,791
Connecticut.....	2,100	19,000	2,586	42,336	2,076	68,098
Delaware.....	0	3,100	915	6,696	299	11,010
Florida.....	*	22,900	4,938	44,542	2,294	74,674
Georgia.....	2,100	24,000	9,383	50,112	2,776	88,371
Idaho.....	0	7,300	2,101	13,719	663	23,783
Illinois.....	21,900	90,800	11,292	150,477	4,144	278,613
Indiana.....	49,400	45,500	5,854	90,963	9,759	201,476
Iowa.....	300	44,900	5,217	46,845	2,964	100,226
Kansas.....	4,000	31,200	7,549	46,420	1,436	90,605
Kentucky.....	2,300	21,300	7,538	35,712	1,852	68,702
Louisiana.....	4,800	19,400	3,773	52,682	3,319	83,974
Maine.....	0	9,200	4,915	25,219	930	40,264
Maryland.....	2,900	21,000	3,500	36,247	1,693	65,340
Massachusetts.....	7,100	41,200	6,384	91,035	6,578	152,297
Michigan.....	402,900	63,600	7,435	90,515	3,662	568,112
Minnesota.....	1,900	38,700	9,926	69,082	2,816	122,424
Mississippi.....	0	12,000	5,248	19,497	4,538	41,283
Missouri.....	12,400	49,300	10,060	96,096	3,556	171,412
Montana.....	300	8,800	2,427	20,927	756	33,210
Nebraska.....	100	24,100	4,655	34,202	1,010	64,067
Nevada.....	0	2,100	1,110	5,659	517	9,386
New Hampshire.....	*	5,100	5,422	15,846	498	26,866
New Jersey.....	16,300	40,600	2,670	110,368	10,912	180,850
New Mexico.....	100	5,500	2,098	12,508	1,064	21,270
New York.....	23,200	107,600	10,738	256,145	16,486	414,169
North Carolina.....	500	28,200	12,753	46,099	4,757	92,309
North Dakota.....	*	9,200	3,644	11,790	708	25,342
Ohio.....	108,100	83,900	9,623	126,591	11,440	339,654
Oklahoma.....	5,900	31,700	5,131	58,924	2,456	104,111
Oregon.....	*	18,100	2,853	15,828	1,296	38,077
Pennsylvania.....	31,200	87,300	29,403	181,932	7,758	337,593
Rhode Island.....	*	6,400	943	17,549	692	25,584
South Carolina.....	0	13,300	3,129	22,795	1,647	40,871
South Dakota.....	0	11,000	5,683	12,094	550	29,327
Tennessee.....	1,500	22,200	5,445	31,461	2,102	62,708
Texas.....	21,600	79,800	20,080	199,417	5,004	325,701
Utah.....	100	6,800	3,001	16,924	802	27,627
Vermont.....	0	5,400	1,707	3,833	563	11,503
Virginia.....	2,000	27,100	12,541	39,704	3,072	84,417
Washington.....	100	26,700	3,473	49,842	3,286	83,401
West Virginia.....	600	13,800	5,503	21,700	1,600	43,203
Wisconsin.....	22,500	43,600	9,205	83,592	2,106	161,003
Wyoming.....	1,100	4,300	2,074	10,570	1,204	19,248
Dist. of Col.....	*	9,000	774	17,919	1,024	28,717

U. S. Total..... 787,800* 1,457,100 301,029 2,717,676 153,133 5,416,738*
Total, including raw material workers, taxi drivers and chauffeurs.... 6,017,000*

* The U. S. total includes 16,800 employees omitted from states started.

¹—Estimates are based on reports from motor vehicle, bodies and part plants for factory wage earners, increased by an estimate for office workers by assuming same ratio of office employees to wage earners as obtained in 1933. Employment in rubber tire and petroleum refining establishments was estimated by applying monthly indices of Bureau of Labor Statistics to the 1933 employment reported by the Census of Manufactures.

²—Estimated by increasing 1933 figures from Census of American Business by one-third of the percentage gain in new motor vehicle registrations by states from 1933 to 1935.

³—Average monthly employment from U. S. Bureau of Public Roads. Employment on county and township roads has not been included.

⁴—Estimated by assuming one full-time driver per truck exclusive of farm trucks.

⁵—Assumed two drivers per revenue bus and one driver per school bus.

⁶—Employees producing raw materials, taxi drivers and chauffeurs, insurance and financing have been estimated at 600,262.

ACCIDENTS CA

Many Cities *DID* It

The National Safety Council conducts annual intercity traffic safety contests awarding prizes to the winners in each of six population groups.

The winners among the eight hundred cities that competed in the Fourth National Traffic Safety Contest in 1935 were:

Grand Prize—Evanston, Ill.

	Motor Vehicle Deaths	
	% Decrease from 3 year average 1932-4 (U.S. Cities 18.3)	1935 Rate per 100,000
Milwaukee, Wis. (Group I)	12.0	11.0
Providence, R. I. (Group II)	20.0	7.8
Syracuse, N. Y. (Group III)	22.7	7.9
Evanston, Ill. (Group IV)	68.4	2.9
Superior, Wis. (Group V)	66.7	8.3
Swissvale, Pa. (Group VI)	100.0	0

The judges considered not only the reduction in traffic accidents from the average of the previous three years, but also engineering improvements, the enactment of regulations, the setting up of administrative machinery and the conduct of organized educational activities which experience has shown eventually decrease accidents.

A consolidation of the methods in use in the above cities is given on the next page.



CAN BE REDUCED

This Is *HOW* It Was Done

Engineering

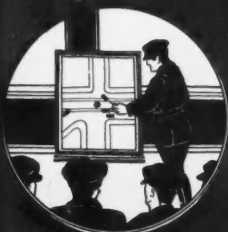
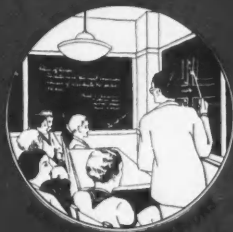
- a. Provision of Traffic Engineer
- b. Accident Investigations, Records and Analyses
- c. Street and Highway Improvements
 - Grade crossing elimination
 - View obstruction removals
 - Curb roundings at intersections
 - Safety isles
- d. Other Reduction of Traffic Hazards
 - Increased illumination
 - Better parking conditions
 - Adequate traffic signals and signs

Enforcement

- a. Uniform Laws and Ordinances
- b. Adequate Traffic Patrol
- c. Traffic Officer Training
- d. Cooperation with Courts
 - Punishment of violators
 - Prevention of "ticket fixing"
- e. Motor Vehicle Inspection

Education

- a. School System
 - Instruction in driving and safety
 - School-safety patrols
- b. Commercial Driver Safety Campaigns
- c. Civic Organizations
 - Adult education in accident prevention
- d. Radio
- e. Press
- f. Safety Contests
- g. Public and group meetings



Motor Industry Spurs Traffic Safety Drive

Always concerned with safety on the highway, executives of the motor industry have considered it their first obligation to produce the safest vehicle which human ingenuity can devise. Every laboratory and every engineering resource of the industry has been, and is, dedicated to this end.

As vehicle registration and use have increased, however, resulting in proportionately greater chances for accident, it has become evident that existing safety efforts must be supplemented if the rising trend of accidents and fatalities is to be reversed.

It is further evident that the provision of street and highway facilities and the control of their use has not kept pace with other elements of highway transportation.

The Safety Traffic Committee of the Automobile Manufacturers Association is charged with the duty of carrying on this important phase of the industry's association effort.

Under highway safety policies recommended by the committee the industry is pledged to continue cooperation with public officials in their efforts to curb accidents.

While believing that there is no single cause and no single answer to the accident problem, the industry feels that safety is primarily the responsibility of those public officials charged with the construction and maintenance of roads and streets and control over their use.

In stating this principle, however, the industry recognizes that these officials can only do an effective job as organized public opinion supports them.

It is the judgment of the industry that such support can best be enlisted by those existing national organizations which, for many years, have consistently carried on effective safety work within the limitation of their financial abilities.

In order to increase their usefulness, the entire automobile industry—automobile, bus, truck, parts and accessory, and rubber tire manufacturers, and the finance and discount companies—has joined in underwriting the cost of a series of projects which have been initiated or expanded, and are being administered under the sole control and direction of ten national organizations, with the active interest and participation of all other official and private agencies.

As an organization, the industry is continuing its participation in the safety field through maintenance of its long-established Safety Traffic Committee as a policy-developing agency.

Through the Safety Department of the Association the industry is kept informed of important safety developments, contact is maintained with interested public and private agencies, and publicity and other materials developed and distributed.

Individually, each company is carrying on, apart from its engineering and related activities, a variety of safety efforts that include use of the radio, the press, magazines, house organs, organizations of users, publications, inspection services and employee cooperation.

Mr. Smiley
76 DRIVE CAREFULLY!

50 National Organizations Active in Highway Safety

More than 50 national organizations—official and private—are devoting a substantial part of their time and money to traffic safety. Space does not permit listing the thousands of state and local branches of these agencies and the other state and local governmental and private groups promoting street and highway safety.

Official

Bureau of the Census, Department of Commerce, Washington, D. C.
Bureau of Public Roads, Department of Agriculture, Washington, D. C.
Bureau of Standards, Department of Commerce, Washington, D. C.
Department of Commerce, Washington, D. C.
Interstate Commerce Commission, Washington, D. C.
Office of Education, Department of the Interior, Washington, D. C.

Private and Semi-Official Organizations

American Association of Motor Vehicle Administrators, Des Moines, Iowa.
American Association of State Highway Officials, National Press Bldg., Washington, D. C.
American Automobile Association, Mills Building, Washington, D. C.
American Bar Association, 1140 North Dearborn Street, Chicago, Ill.
American Farm Bureau Federation, Munsey Bldg., Washington, D. C.
American Legion, Indianapolis, Ind.
American Mutual Alliance, 60 East 42nd St., New York City.
American Petroleum Institute, 50 West 50th St., New York City.
American Road Builders Association, National Press Bldg., Washington, D. C.
American Standards Association, 29 West 39th St., New York City.
American Transit Association, 292 Madison Avenue, New York City.
American Trucking Associations, Inc., Investment Bldg., Washington, D. C.
Association of American Railroads, 30 Vesey Street, New York City.
Association of Lions Clubs, 332 So. Michigan Avenue, Chicago, Ill.
Automobile Manufacturers Association, Inc., 366 Madison Avenue, New York City.
Automotive Parts and Equipment Manufacturers, Inc., 800 Mich. Theatre Bldg., Detroit, Mich.
Boy Scouts of America, 2 Park Avenue, New York City.
Bureau of Explosives, 30 Vesey Street, New York City.
Chamber of Commerce of the United States, Washington, D. C.
General Federation of Women's Clubs, 1734 N St., N.W., Washington, D. C.
Girl Scouts, Inc., 570 Lexington Avenue, New York City.
Harvard Bureau for Street Traffic Research, Harvard University, Cambridge, Mass.
Highway Education Board, Pan-American Union, Washington, D. C.
Highway Research Board, 2101 Constitution Avenue, Washington, D. C.
Illuminating Engineering Society, 29 West 39th Street, New York City.
Institute of Traffic Engineers, 1 Park Avenue, New York City.
International Association of Chiefs of Police, 1827 Orrington Avenue, Evanston, Illinois.
Junior Chamber of Commerce, St. Louis, Missouri.
Kiwanis International, 520 No. Michigan Avenue, Chicago, Ill.
Motor & Equipment Manufacturers Association, 250 W. 57th St., New York City.
Motor & Equipment Wholesalers Association, 400 W. Madison St., Chicago, Ill.
National Automobile Dealers Association, 634 N. Grand Blvd., St. Louis, Mo.
National Association of Motor Bus Operators, 823 Tower Bldg., Washington, D. C.
National Association of Taxicab Owners, 500 No. Dearborn St., Chicago, Ill.
National Bureau of Casualty & Surety Underwriters, 1 Park Ave., New York City.
National Congress of Parents and Teachers, Safety Project Hdqts., 114 E. 32nd St., N. Y. C.
National Education Association, Washington, D. C.
National Grange, 1343 H Street, N.W., Washington, D. C.
National Highway Users Conference, National Press Bldg., Washington, D. C.
National Industrial Traffic League, 1 LaSalle Street Bldg., Chicago, Ill.
National Safety Council, 20 North Wacker Drive, Chicago, Ill.
Northwestern University Traffic Officers Training School, Evanston, Ill.
Rotary International, 35 East Wacker Drive, Chicago, Ill.
Rubber Manufacturers Association, Inc., 444 Madison Avenue, New York City.
Society of Automotive Engineers, 29 West 39th St., New York City.
Veterans of Foreign Wars, Broadway & 34th St., Kansas City, Mo.

It's SMART To DRIVE CAREFULLY!

Progress in Uniform State Motor Vehicle Laws and Municipal Ordinances

Safety, economy and convenience in the use of motor vehicles require uniform as well as adequate regulation of traffic. Organized effort toward its accomplishment began with the formulation of a "Uniform Motor Vehicle Code" originally prepared in 1925-6 by the National Conference on Street and Highway Safety in cooperation with the National Conference of Commissioners on Uniform State Laws. This was reviewed and revised by the National Conference on Street and Highway Safety in 1930 and again in 1934.

The following organizations cooperated with the U. S. Department of Commerce in conducting the Conference: Bureau of Public Roads; Department of Agriculture; American Association of Motor Vehicle Administrators; American Automobile Association; American Mutual Alliance; American Railway Association; American Transit Association; Chamber of Commerce of the U. S.; Automobile Manufacturers Association; National Bureau of Casualty and Surety Underwriters; and National Safety Council.

In its present form the Uniform Code comprises five acts:

- I. Administration, Registration, Certificate of Title and Anti-theft Act.
- II. Operators' and Chauffeurs' License Act.
- III. Civil Liability Act.
- IV. Safety-Responsibility Act.
- V. Act Regulating Traffic on the Highways.

To supplement the foregoing recommended State Legislation, the first model municipal traffic ordinance was prepared in 1927-8 by the National Conference on Street and Highway Safety. It was also reviewed and revised by the Conference in 1930 and again in 1934.

In its latest form, it consists of three parts:

- I. Model Municipal Traffic Ordinance.
- II. Model Traffic Administrative Ordinance.
- III. State Law Provisions which Might be Included in the Traffic Ordinance.

The Model Traffic Ordinances, as prepared in 1934, have been adopted by a large number of cities and towns, both large and small, in all sections of the country. The Model Traffic Ordinance is sufficiently comprehensive to meet the needs of the largest cities, yet small cities may omit those provisions which are not appropriately applicable without destroying any of the essential elements of uniformity. Cities in states which have not adopted the Uniform Code Act V must consider the legality of the Model Ordinance provision in the particular state.

The table on the following page shows those states whose laws contain substantial parts of the Uniform Vehicle Code.

Copies of the Uniform Code Acts and Model Ordinance may be secured from the American Association of Motor Vehicle Administrators, A. W. Koehler, Executive Secretary, care of Bureau of Public Roads, Washington, D. C.

IT'S SMART TO DRIVE CAREFULLY!

States Whose Laws Accord with Model Code

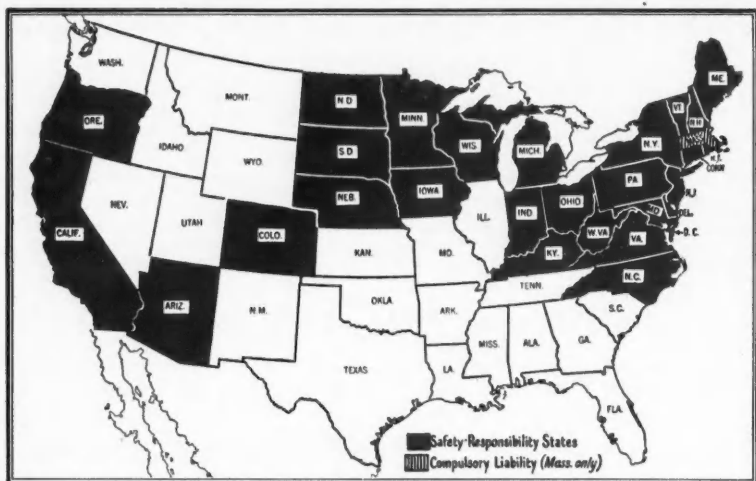
Forty-five States Have Some Part of It Now

	ACT I Administration, Registration, Certificate of Title and Anti-theft		ACT II Operators' and Chauffeurs' License		ACT III Civil Liability	ACT IV Safety Respons- ibility	ACT V Highway Traffic Regulation
	Regis- tration	Anti- theft	Stand- ard	Partial			
Alabama		yes		yes			
Arizona	yes	yes		yes		yes	yes
Arkansas							
California		yes	yes		yes	yes	yes
Colorado	yes	yes		yes	yes	yes	yes
Connecticut			yes		yes	yes	
Delaware	yes	yes	yes		yes	yes	yes
Dist. of Col.		yes	yes			yes	
Florida		yes					
Georgia		yes					
Idaho	yes	yes	yes		yes		yes
Illinois					yes		
Indiana		yes		yes	yes	yes	
Iowa			yes		yes	yes	
Kansas				yes	yes		
Kentucky				yes			
Louisiana	yes			yes			yes
Maine						yes	yes
Maryland		yes	yes			yes	
Massachusetts			yes		yes		
Michigan		yes		yes	yes	yes	yes
Minnesota				yes	yes	yes	yes
Mississippi							
Missouri		yes					
Montana		yes		yes	yes		
Nebraska				yes	yes	yes	yes
Nevada	yes	yes		yes	yes		
New Hampshire			yes			yes	yes
New Jersey			yes			yes	yes
New Mexico	yes	yes					yes
New York			yes		yes	yes	
North Carolina	yes	yes	yes			yes	yes
North Dakota	yes	yes		yes	yes	yes	yes
Ohio			yes		yes	yes	
Oklahoma		yes					
Oregon	yes	yes	yes		yes	yes	yes
Pennsylvania	yes	yes	yes		yes	yes	yes
Rhode Island			yes		yes	yes	
South Carolina				yes			
South Dakota		yes			yes	yes	yes
Tennessee							
Texas				yes	yes		
Utah		yes	yes				yes
Vermont			yes		yes	yes	
Virginia	yes	yes	yes			yes	yes
Washington			yes		yes		yes
West Virginia			yes			yes	
Wisconsin		yes		yes		yes	yes
Wyoming					yes		

Note—Under Act I are shown the states that have adopted the registration and auto theft sections. All states have some form of registration laws. Under Act II states having full standard licensing systems are separated from those having licensing laws that for various reasons are not considered standard. Concerning Act V it should be mentioned that all states have some form of rules of the road and equipment laws.

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START
TO DRIVE CAREFULLY!

27 States Have Safety-Responsibility Laws



State Legislation for Traffic Accident Compensation

Three forms of such legislation have been advanced in the states: Financial Responsibility, Compulsory Liability Insurance and Compulsory Compensation.

A. Financial Responsibility requires drivers who have caused accidents to satisfy judgments and establish future responsibility to retain their driving privilege. Twenty-seven states, the District of Columbia, Hawaii, and eight Canadian provinces have such laws.

These laws for the most part have been patterned after the Model Safety-Responsibility Bill first promulgated by the American Automobile Association in 1928 and slightly revised, from experience gained, in 1930, 1932 and 1935.

Suspension and revocation of the operator's license and registration certificates of all persons found guilty of serious violations of motor vehicle laws and/or against whom a final judgment has been legally rendered and who have failed to satisfy such judgment. This suspension is to remain in effect not only until such judgment has been satisfied, at least within reasonable amounts, but also until proof of ability to compensate for future damages has been established.

Provision for an interchange among the states of rulings as regards drivers who have run afoul of the law, the idea being

to make it nationally reciprocal and to deprive the outlawed driver of the use of the roads, not only in his state, but in all states where the law is in effect.

Specific results from such legislation have been:

1—The states having a Safety-Responsibility law have made a better safety record than the country as a whole, and a much better record than the states without such laws.

2—The power to suspend and revoke has proved an effective weapon in removing thousands of the worst offenders from the highways.

3—The law has materially aided in collecting judgments that otherwise would be uncollectable.

4—It has tended to increase the protection of financial responsibility, either through voluntary assumption or through compulsion in the case of offenders.

B. Compulsory Liability Insurance requires all drivers to establish financial responsibility by taking out insurance. Massachusetts is only state with such a law.

C. Compulsory Compensation resembles Workmen's Compensation and rewards all injured regardless of fault. Several states have introduced bills but none passed.

Don't Start to DRIVE CAREFULLY!

Safety Glass and Brake Requirements by States

BRAKES

See explanations below

Ala.	1, 3	Nebr.	1
Ariz.	1	Nev.	5
Ark.	1	N. H.	5, 3
Calif.	2, 3	N. J.	1
Colo.	1, 3, 4	N. M.	1
Conn.	1, 3	N. Y.	5
Dela.	1, 3	N. C.	1
D. of C.	1, 3	N. D.	1
Fla.	5	Ohio.	5
Ga.	5	Okla.	5, 3
Ida.	1	Ore.	1, 3
Ill.	1, 3, 4	Pa.	1, 3, 4
Ind.	5	R. I.	1, 3
Iowa.	5	S. C.	5
Kan.	5	S. D.	1, 3
Ky.	6	Tenn.	1, 7
La.	1, 3	Tex.	1, 3
Me.	5, 3	Utah.	1
Md.	5	Vt.	5
Mass.	1, 3	Va.	5, 3
Mich.	1, 3	Wash.	1, 3
Minn.	1, 3	W. Va.	1
Miss.	1	Wis.	1, 3
Mo.	1, 3	Wyo.	None
Mont.	1		

Brakes — Explanation

1—Adequate to control the movement of and to stop and to hold such vehicle, including two separate means of applying the brakes, each of which shall be effective to apply the brakes to at least two wheels and so constructed that no part which is liable to failure shall be common to the two.

2—"Adequate to bring such motor vehicle or combination of vehicles to a complete stop when operated upon dry asphalt or concrete pavement surface where the grade does not exceed one per cent, and when operating at speeds set forth in the following table within the distances set opposite such speeds."

3—Stopping distances specified.

4—New motor vehicles, trailers and semi-trailers shall be equipped with service brakes on every wheel, except trailer (in Colo. and Ill.) and semi-trailer of less than 1500 lb. gross weight.

5—Adequate.

6—Unlawful to operate vehicle if brakes are "defective or out of order."

7—Freight carrying motor vehicles only must have all wheels equipped with effective brakes which can be operated from seat of motor vehicle by driver.

SAFETY GLASS

See explanations below

Ala.	None	Nebr.	c, d, f, k, 3
Ariz.	None	Nev.	None
Ark.	None	N. H.	h, 2
Calif.	(a, 2) (d, 1)	N. J.	h, 3
Colo.	(b, d, 3) (a, 4)	N. M.	None
Conn.	(g, 2)	N. Y.	h, 3
Dela.	(h, j, 2)	N. C.	h, j, i, 1
D. of C.	(h, 1)	N. D.	e, f, 1
Fla.	None	Ohio.	h, j, 2
Ga.	None	Okla.	c, d, 2, 5
Ida.	None	Ore.	None
Ill.	a, c, d, 3	Pa.	h, k, 3
Ind.	(h, j, 3) (d, 1)	R. I.	d, 1
Iowa.	c, d, f, 3	S. C.	None
Kan.	None	S. D.	None
Ky.	None	Tenn.	f, 1
La.	None	Tex.	None
Me.	None	Utah.	None
Md.	(c, k, 3) (h, i, 3, 5)	Vt.	h, 3
Mass.	h, j, 2	Va.	h, 3
Mich.	h, k, 1	Wash.	None
Minn.	None	W. Va.	h, 2
Miss.	None	Wis.	h, 2
Mo.	c, d, f, 3	Wyo.	None
Mont.	None		

Safety Glass — Explanation

Letters indicate type of vehicle; numerals, parts where safety glass is required

a—New motor vehicles.

b—New passenger-for-hire vehicles.

c—Passenger-for-hire vehicles.

d—School buses.

e—Buses.

f—Passenger vehicles. (In Iowa, construed to include trucks).

g—Pleasure vehicles.

h—All motor vehicles.

i—Law prohibits the operation "knowingly" of vehicles not equipped with safety glass.

j—If previously registered in another state by the same owner while a resident therein North Carolina exempts any motor vehicle; Delaware, Indiana, Massachusetts and Ohio exempt any private passenger car seating less than 8 and not operated for hire; Delaware exempts any truck, and Indiana, Massachusetts and Ohio any farmer's truck.

k—Law apparently broad enough to include non-residents.

1—All glass.

2—Partitions, doors, windows and windshields.

3—Doors, windows, and windshields.

4—Windshields.

5—All replacements must be made with safety glass.

HIGHWAY SAFETY POLICIES

of the

AUTOMOBILE INDUSTRY

1 We will continue to build vehicles with every safety factor which intensive research and engineering ingenuity make available.

2 We will merchandise our product under circumstances which emphasize the importance of safe construction, safe maintenance and safe use.

3 We will assist our dealers in keeping a constructive safety message before their customers and their communities.

4 We will encourage our dealers and service organizations to deliver cars, new or old, in safe driving condition and only to persons legally entitled to use the public highways.

5 We will cooperate with the police departments and other enforcement agencies in a vigorous selective program of traffic law enforcement designed to remove the reckless from the highways, to curb the careless, and to protect the right of the good citizen to use the highways safely and free from molestation.

6 We will work for highways of the highest quality, consistent with traffic needs and best adjusted to the safe use of the modern vehicle.

7 We will aid in the development and application of sound traffic regulations designed to gain maximum safety from existing streets and highways.

8 We will aid the school system in protecting the young and in developing good citizens conscious of their highway duties.

9 We will continue to support a sound, scientific approach to a solution of the traffic problem, believing that the same methods which have given America safe cars will protect their safe use.

10 We will assist sound educational efforts through our own channels and through cooperation with other recognized safety educational agencies working for greater safety, economy and happiness in the use of public highways.

AUTOMOBILE MANUFACTURERS ASSOCIATION

Alvan Macauley, President

Motor Transportation Safest on Basis of Occupant Mileage

(Table and notes from The National Safety Council, Inc.)

Kind of Transportation	Mileage (a)	Deaths	Death Rate per 100,000,000 Miles
I. Mileage, All Occupants			
1. Motor vehicles.....	384,000,000,000	19,500	5.1
2. Steam railways.....	25,401,000,000	287 (b)	1.1
3. Airplanes (civil aviation only)....	474,000,000	359	75.7
4. <i>Scheduled</i>	323,000,000	38	11.8 (c)
5. <i>Non-scheduled</i>	151,000,000	321	212.3
II. Mileage, Passengers Only			
6. Motor vehicles (d).....	384,000,000,000	19,500	5.1
7. Steam railways.....	18,069,000,000	33	0.2
8. Airplanes (scheduled flying only)...	225,267,559	21	9.3 (e)
III. Mileage, All Occupants All Deaths			
9. Motor vehicles.....	384,000,000,000	36,101	9.4
10. Steam railways.....	25,401,000,000	5,054 (f)	19.9
11. Airplanes (civil aviation only)...	415,000,000	363	76.6

Source: Approximations of the National Safety Council, based on data from the U. S. Census Bureau, U. S. Bureau of Air Commerce, Interstate Commerce Commission, and other sources. Rates for 1935 cannot be estimated at the present time, because part of the data are not yet available.

(a) In parts I and III of the table, the mileage figures are numbers of "occupant miles"; in part II they are numbers of "passenger miles."

(b) Excludes 713 deaths of occupant trespassers because the mileage traveled by trespassers is unknown.

(c) As the number of deaths in scheduled operations in any one year is small, the average rate from 1933 to 1935, which is 7.8, is probably a better current measure of scheduled aviation accident hazards.

(d) Line 6 is identical with line 1, because data are not available to separate the accident experience of operators and other occupants of motor vehicles; if such data were available it is not likely that the rates for the two groups would differ greatly.

(e) The average for the three years, 1933 to 1935, is 5.6.

(f) This figure includes 2,752 trespasser

deaths but excludes deaths of railroad employees not connected with the operation of trains. It may be noted that the rate of 19.9 would be considerably lower if the mileage traveled on trains by trespassers could be obtained and added to the present mileage figure which covers passengers and train crews only. However, in considering the problem of total exposure to accidents, it may also be noted that the motor vehicle death rate of 9.4 is based on a mileage total which, of necessity, excludes any measure of the exposure of pedestrians. As pedestrian deaths constitute nearly half of the motor vehicle total, this exclusion is of the greatest importance.

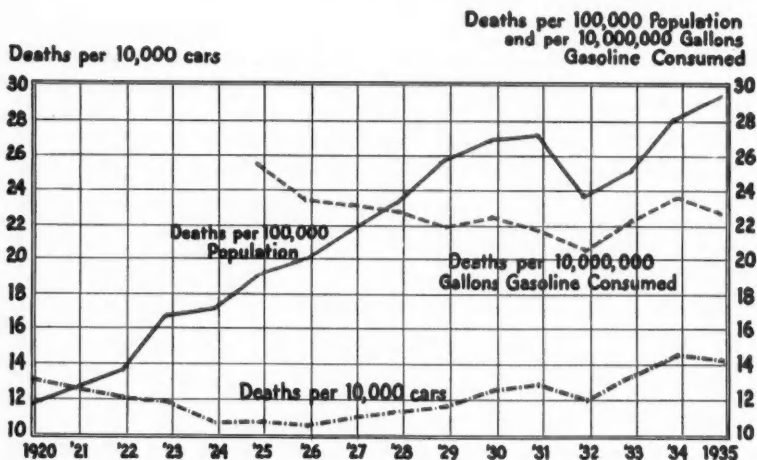
Explanatory Note: The above table is presented with a full realization that the available data are inadequate to measure exactly the relative safety of different kinds of transportation. Due to the great public interest in the question, however, the National Safety Council has used all facts obtainable in arriving at certain approximations which, it is believed, give a fairly adequate comparison. Changes will be made if and when more accurate data bearing on the question can be secured.

Motor Vehicle Fatalities Decrease 6% in First 4 Months 1936 Compared with 1935

	January	February	March	April	4 Months
1935.....	2 550	2,280	2 810	2 590	10,230
1936.....	2,750	1,960	2 360	2 460	9,530
% Change.....	+8%	-14%	-16%	-5%	-6%

Let's Start '36 DRIVE CAREFULLY!

1935 Fatal Motor Accidents Increase



Motor Vehicle Fatalities

(Source: "Accident Facts" by the National Safety Council)

Year	NUMBER OF DEATHS					TOTAL DEATH RATES—		
	TOTAL	Primary Auto Collisions	Railway Collisions	Street Car Collisions	Motor-cycle Accidents	Per 100,000 Population	Per 100,000 Cars**	Per 10,000,000 Gallons Gas
1923	18,394	16,432	*	*	335	16.5	120.5	†
1924	19,380	17,565	1,127	413	274	17.1	109.2	†
1925	21,877	19,610	1,413	556	298	19.0	109.0	25.5
1926	23,431	20,945	1,727	515	244	20.1	105.9	23.9
1927	25,796	23,196	1,832	520	318	21.8	110.9	23.5
1928	27,996	24,937	2,142	569	348	23.3	113.8	23.0
1929	31,215	28,282	2,046	530	357	25.7	117.3	22.0
1930	32,929	30,228	1,830	481	390	26.7	123.5	22.3
1931	33,675	31,197	1,714	435	329	27.1	129.8	21.9
1932	29,451	27,363	1,522	316	250	23.6	121.6	20.7
1933	31,363	29,323	1,437	318	285	25.0	132.0	22.0
1934	36,101	33,980	1,457	332	332	28.5	144.2	23.6
1935	37,000 (est.)		1,600	250	....	29.0	141.5	22.8

Source: Calculated from data of the U. S. Census Bureau and the U. S. Bureau of Public Roads.

*Until 1924 the U. S. Census Bureau's classification of automobile accidents included only cases where the automobile was the heavier vehicle involved—shown in the above table as "primary auto." Motor vehicle accidents are now understood to include also collisions with heavier vehicles, and motorcycle accidents.

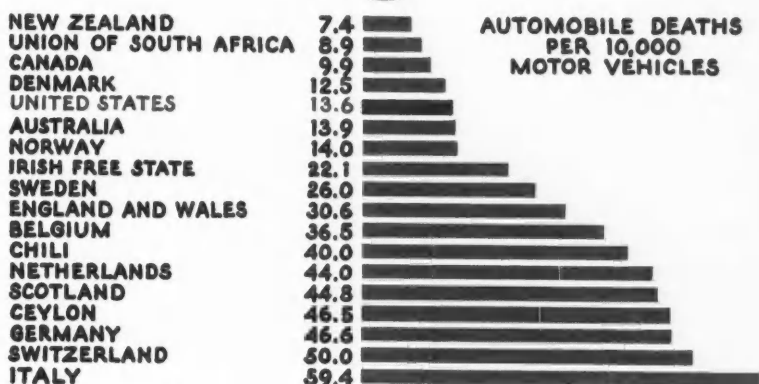
†Gasoline consumption figures partially estimated for 1925 to 1929. Data prior to 1925 inadequate for computing rates.

**Rates are computed on the basis of registered motor vehicles, including motorcycles. Unregistered autos, trucks, and motorcycles are omitted.

DRIVE CAREFULLY!

World Motor Vehicle Accidents

(Figures from National Safety Council)



Automobile Insurance in the United States, 1935

(Compiled by The Insurance Year Book Service, The Spectator)

	Net Premiums	Losses Paid†	Ratio of Losses Paid to Premiums Written
Automobile Liability	\$241,266,145	\$156,945,788	65.1
Automobile Collision	12,777,778	8,014,455	62.7
Automobile Property Damage..	69,399,760	29,507,235	42.5
Automobile (Miscellaneous)¹ . .	5,325,855	2,441,203	45.8
Fire and Theft*	117,669,594	44,984,020	38.2
Totals	\$446,439,132	\$241,892,701	54.2

¹—Representing automobile premiums and losses of casualty companies writing complete automobile coverage and of casualty companies which write fire, theft, earthquake and windstorm.

*—Fire Insurance Companies transact all branches of automobile insurance with the exception of liability. A great portion of this business, however, is fire and theft insurance.

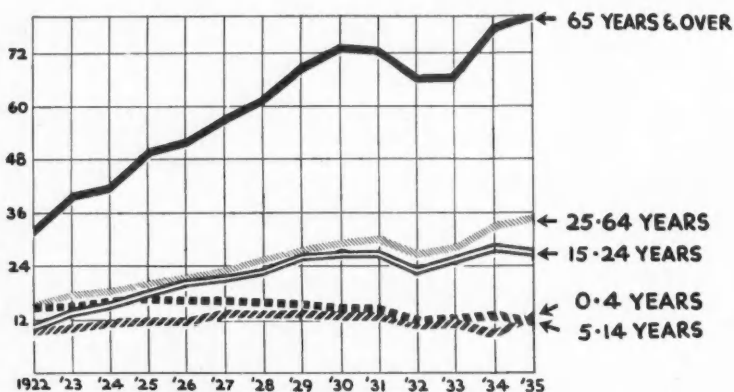
†—Includes investigation and adjustment of claims but does not include agents' commissions, home office and operating expenses.

THE SMART TO DRIVE CAREFULLY!

Children Better Than Adults in Traffic Safety

(Chart from The National Safety Council, Inc.)

MOTOR VEHICLE DEATHS PER 100,000 POPULATION

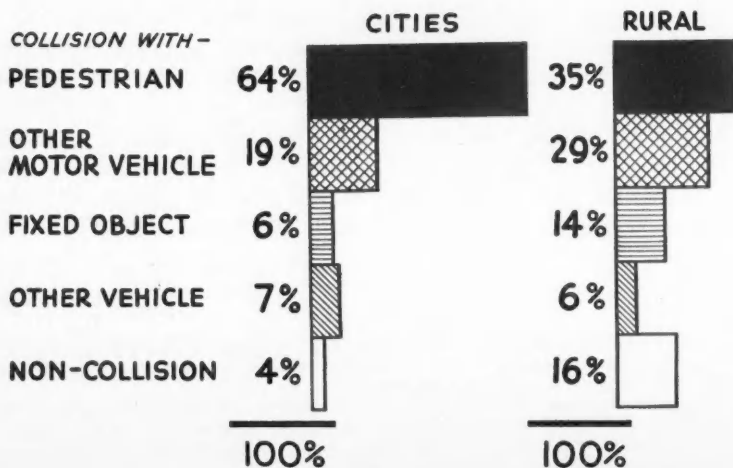


(U. S. Census Bureau data; except 1935, estimated)

Collision With Pedestrians Cause of Most Deaths

(Chart from The National Safety Council, Inc.)

TYPES OF FATAL MOTOR VEHICLE ACCIDENTS



The Safety
10

DRIVE CAREFULLY!

507,000 Miles in State Highway System 1934

(Figures on state highway system from U. S. Bureau of Public Roads)

STATE SYSTEM AS OF DECEMBER 31, 1934								
	Total Local and State Mileage ¹	Total State System ²	Total Surface Mileage	Total Non- Surface Mileage	Total Primary Roads	Second- ary Road System	Streets Con- necting State Highways	Total New Sur- facing
Ala.	76,095	6,497	4,191	2,306	6,253	.....	244	300
Ariz.	23,576	2,994	2,359	635	2,994	.....	30	298
Ark.	74,001	8,864	7,412	1,452	2,864	.....	178	279
Calif.	77,693	13,623	12,101	1,522	12,631	.....	992	1,297
Colo.	73,800	9,328	5,312	4,016	3,559	5,769	93	904
Conn.	13,569	2,473	2,385	88	2,317	.....	156	66
Dela.	3,892	1,245	1,245	.....	1,225	.....	20	161
Fla.	41,406	11,203	7,112	4,091	10,708	.....	495	201
Ga.	113,778	9,119	5,103	4,016	9,031	.....	88	392
Idaho.	36,624	4,939	3,490	1,449	4,762	.....	177	449
Ill.	97,615	10,803	10,556	247	10,099	.....	704	260
Ind.	77,136	9,292	8,486	806	9,292	.....	462	421
Iowa.	101,713	8,876	8,523	353	7,910	.....	966	491
Kan.	133,063	8,982	6,620	2,362	8,513	.....	469	2,265
Ky.	62,633	7,538	6,770	768	7,538	.....	.....	773
La.	38,302	17,664	11,891	5,773	4,446	12,993	225	129
Me.	22,458	8,060	6,639	1,421	2,314	5,669	77	297
Md.	14,971	3,855	3,855	.....	3,855	.....	127 ³	125
Mass.	18,136	1,833	1,833	.....	1,833	.....	153 ³	125
Mich.	86,460	8,982	8,549	433	8,256	.....	726	408
Minn.	113,883	11,371	10,756	615	11,208	.....	163	976
Miss.	60,427	6,120	5,917	203	3,980	2,088	52	293
Mo.	106,449	12,462	11,539	923	8,082	4,380	.....	1,410
Mont.	69,314	5,442	4,149	1,293	5,145	274	23	1,469
Nebr.	94,638	9,774	7,303	2,471	9,179	.....	595	847
Nev.	26,102	4,002	2,316	1,686	2,612	1,371	19	478
N. H.	12,840	3,063	3,026	37	1,460	1,603	103	160
N. J.	23,649	1,872	1,773	99	1,351	.....	521	66
N. M.	31,939	10,338	3,563	6,775	10,185	.....	153	908
N. Y.	84,085	13,946	12,410	1,536	13,946	.....	759	727
N. C.	57,698	57,696	25,692	32,004	10,330	47,066	849	747
N. D.	106,879	7,617	5,930	1,687	7,603	.....	21	746
Ohio.	85,603	14,331	14,252	79	12,204	.....	2,127	1,004
Okla.	108,182	7,440	6,001	1,439	7,440	.....	150	685
Ore.	45,776	6,795	5,627	1,168	4,625	2,046	124	336
Pa.	86,749	35,477	28,463	7,014	12,974	20,257	2,246	6,358
R. I.	2,376	1,106	728	378	1,010	.....	96	65
S. C.	64,068	5,998	5,529	469	5,998	.....	.....	165
S. D.	119,882	6,003	5,028	975	5,989	.....	14	657
Tenn.	69,637	7,188	6,633	555	7,188	.....	265	1,085
Texas.	220,643	20,012	14,334	5,678	20,012	.....	1,311 ⁴	1,553
Utah.	23,544	4,625	2,891	1,734	3,599	655	371	425
Vt.	14,386	1,029	1,019	10	1,029	.....	87	76
Va.	46,013	45,997	24,392	21,605	9,044	36,953	218 ⁵	310
Wash.	44,326	3,801	3,574	227	3,799	.....	255 ⁵	641
W. Va.	33,819	33,819	8,349	25,470	4,514	29,120	185	755
Wis.	82,865	10,106	9,645	461	9,992	.....	492	1,176
Wyo.	46,228	3,414	2,807	607	3,414	.....	28	2,054
Total..	3,068,919	507,014	358,078	148,936	324,312	170,244	17,609	35,813

¹—Estimated by American Association of State Highway Officials in April 1936 issue of "American Highways."

²—This table shows the existing mileage, on December 31, 1934, of roads and streets under the jurisdiction or control of the state highway departments, including city streets designated as extensions of the state highway systems.

³—Not segregated from primary system.

⁴—Includes 692 miles not segregated from primary system.

⁵—Includes 253 miles not segregated from primary system.

1st START TO DRIVE CAREFULLY!

State Highway

For Highway and Bridge Work Under Supervision of

(Source: U. S. Bureau of Public Roads; Compiled for

NET INCOME FROM CURRENT STATE REVENUE SOURCES

State	Balance on Hand January 1, 1934 ¹	Highway Funds	Reserves for Debt Service	State Road Tax Levies and Appro- priations	Motor Fuel Taxes	Motor Vehicle Regis- tration Fees, Etc.	Motor Carrier Taxes ²	Tolls on State Highway Bridges, Ferries, Etc.	Total from Current State Revenue Sources
Ala.....	221		1,398		4,611	2,631	32	287	7,561
Ariz.....	534				1,775	605	92		2,472
Ark.....	135				6,818	2,162	19	421	9,463
Calif.....	12,497			3,425	24,161	2,744	1,103		31,459
Colo.....	489		56	441	3,151		103		3,695
Conn.....	1,512				4,671	6,717	57	1	11,446
Del.....	354		1,111		1,187	967			2,197
Fla.....	1,032				6,991				6,991
Ga.....	2,731				9,205	1,011	77		10,293
Idaho.....	193		197	289	2,820	151	21		3,281
Ill.....	17,505				7,951	17,530			25,481
Ind.....	4,376				8,651	2,942			11,593
Iowa.....	4,168				6,094	8,665			14,759
Kansas.....	2,264				8,145	3,075	435		11,655
Ky.....	-2,468		106	325	9,006	2,306	178	783	12,598
La.....	-322		1,585		6,540	4,199		18	10,757
Me.....	2,832		225		4,466	2,994		224	7,684
Md.....	2,353			7852	8,274	3,783		17	12,937
Mass.....	5,910				16,902	5,708			22,610
Mich.....	5,730		22,996		13,984	100	67		14,151
Minn.....	997		1,457	1,294	6,382	5,982			13,658
Miss.....	76				3,508	172			3,680
Mo.....	2,071		69		9,525	6,905	271		16,701
Mont.....	1,747				3,428				3,428
Neb.....	873				5,314	559			5,873
Nev.....	55			49	891	229	139		1,308
N. H.....	674		509		2,796	2,244			5,040
N. J.....	11,797		28,004	2,227	17,939	14,803	73		35,042
N. M.....	371		287	2	2,706	336	52		3,096
N. Y.....	18,712		42,901		8,780	11,809		339	20,928
N. Car.....	3,752		6,608	7297	16,340	6,869	204	132	23,842
N. Dak.....	612				1,460	100	2		1,562
Ohio.....	9,498				15,337	3,693	224		19,254
Okla.....	-1,699				5,155	1,210	574		6,939
Oregon.....	1,236				7,166	1,893	603		9,662
Penn.....	18,914		16,322		27,568	31,263	1		58,832
R. I.....	1,075		1,484		2,031	2,002			4,033
S. Car.....	1,790		1,202		6,444	2,033	47		8,524
S. Dak.....	689			11	1,755	262	258		2,286
Tenn.....	6,237		1,319		7,621	3,063	107	320	11,111
Texas.....	4,170				15,774	4,605	4	5	20,388
Utah.....	340		5,123		2,700	675	161		3,536
Vt.....	1,768				1,833	1,933			3,916
Va.....	-2,245		395		12,113	4,615	74		16,802
Wash.....	2,629			782	11,862	2,444		3	14,391
W. Va.....	465		4,697	71,811	5,600	5,576			12,387
Wis.....	2,544				17,899	11,067			28,966
Wyo.....	437			60	1,300	439	47		1,846
Total.....	151,631	138,051	11,165	376,630	195,071	5,025	2,550	590,714	

¹—In order to obtain uniform data on state highway finance for all states, the reported income and expenditures of the state highway departments have been amplified, when necessary, by the addition of transactions relating to state highway debt service, balances in sinking funds and other reserves for debt service, income and expenditures of special bridge and grade separation authorities, expenditures of local authorities on state highways, and other adjustments.

²—Wherever possible, balances in sinking funds and other reserves for the payment of principal and interest on state highway obligations have been segregated from other highway funds. Minus sign indicates a deficit.

³—Special taxes imposed on motor vehicles operated for hire and other motor carriers.

Income in 1934

State Highway Departments in Thousands of Dollars

Calendar Year from Reports of State Authorities¹

NET INCOME FROM OTHER THAN CURRENT STATE REVENUE SOURCE									
Miscellaneous ⁴	Federal Funds For Road Construction ²	Advances to Trust Fund	Other Federal Funds Received ³	Funds Transferred From Local Government Units For Work on State Highways	For Work on Local Roads and Streets	Income from Issue of Bonds, Notes, Etc.	Total from Other Than Current State Revenue Sources	Total Income	State
80	8,212	250		17			8,559	16,120	Ala.
17	4,747						4,747	7,236	Ariz.
3	5,633	400					6,036	15,499	Ark.
63	11,376			396	8		11,843	43,302	Calif.
116	6,424	600		22			7,162	10,857	Colo.
129	2,756	500	123	280	6		3,794	15,240	Conn.
18	1,901						1,919	4,116	Dela.
20	5,934		669	167			6,790	13,781	Fla.
25	6,102	250		1			6,378	16,671	Ga.
17	3,664	150		18			3,849	7,130	Idaho
178	13,664						13,842	39,323	Ill.
90	6,865	2,000	491	81	1		9,528	21,121	Ind.
2	7,481						7,483	22,242	Iowa
236	9,565	750				43	10,594	22,249	Kansas
50	6,185	300		178			6,713	19,311	Ky.
6	3,982	200		1		506	4,695	15,452	La.
373	1,999	325		1,534	2	253	4,486	12,170	Me.
224	1,646	500	364	130		3,794	6,658	19,959	Md.
163	4,625		151			14,996	19,606	37,606	Mass.
978	9,523	1,800	3,987	284		7,633	16,572	30,723	Mich.
197	8,719	1,000					9,916	23,574	Minn.
16	6,331	250		44			6,641	10,321	Miss.
213	10,031	1,250		132		5,069	16,695	33,396	Mo.
	6,668		334	5		1,516	8,523	11,951	Mont.
19	5,732	1,250		21			7,022	12,895	Neb.
57	4,584	200		21			4,862	6,170	Nev.
2	2,047			147		900	3,096	8,136	N. H.
976	6,371	300			182		7,829	42,871	N. J.
32	4,616	1,100		67		1,500	7,315	10,411	N. M.
2,159	20,927			589		17,755	41,430	62,358	N. Y.
188	6,409						6,597	30,439	N. Car.
28	5,005	300		65			5,398	9,960	N. Dak.
213	12,497	375	7,712	50			20,847	40,101	Ohio
211	7,960	200		59			8,430	15,369	Okla.
4	6,024			175			6,203	15,865	Oreg.
935	14,374	3,500			353		19,142	77,974	Penn.
71	1,325						1,396	5,429	R. I.
95	3,804	400		1,387			5,686	14,210	S. Car.
	4,282	300					4,582	6,968	S. Dak.
9	7,396						7,405	18,516	Tenn.
141	19,940	2,000		235			22,316	42,704	Texas
55	4,010			59			4,124	7,660	Utah
	1,440			257	144		1,841	5,757	Vt.
42	5,889	1,500	96				7,527	24,329	Va.
90	5,283		58				5,431	19,822	Wash.
283	2,914	400				2,000	5,597	18,584	W. Va.
691	6,879	500		387			8,457	37,423	Wis.
36	4,074		162	5			4,277	6,123	Wyo.
9,551	317,815	22,850	14,147	6,814	3,100	40,969	415,246	1,005,960	Total

¹—Includes interest on deposits and investments, railway participation in grade crossing eliminations, and miscellaneous unclassified receipts.

²—These columns include all payments through the agency of the Bureau of Public Roads.

³—Includes federal oil royalties and grants from federal agencies for emergency construction and work relief on highways. Information on expenditures by federal relief agencies for state highway work was reported by only a few states.

⁴—Appropriations from general funds. W. Va. appropriation of \$1,800,000 included.

⁵—Includes other state taxes, fees, etc., not shown separately as follows: Ark. \$43,000; Calif. \$26,000; Del., \$43,000; Md., \$11,000; Vt., \$150,000; Total \$273,000.

State Highway

(Source: U. S. Bureau of Public Roads; Compiled for

EXPENDITURES FOR STATE-ADMINISTERED HIGHWAYS

THOUSANDS OF DOLLARS	CAPITAL OUTLAY ¹				Net Admini- strative, Engi- neering, and Miscellaneous ²			State Highway Police ³
	Total Capital Outlay	Acquisi- tion of Right of-Way	Con- struc- tion of Roads	Constr. of Bridges, Etc.	Total Main- tenance ⁴	Equip- ment ⁵	Admini- strative, Engi- neering, and Miscel- laneous ⁶	
State								
Alabama.....	\$9,593		9,593		\$1,823	434	135	24
Arizona.....	6,092	71	5,681	340	971	100	226	95
Arkansas.....	6,033		6,033		1,622	27	490	
California.....	33,320	3,687	26,307	3,326	7,661	40	1,452	
Colorado.....	8,607		8,607		1,330	479	154	
Connecticut.....	9,336		9,003	333	2,961	83	676	
Delaware.....	2,786	306	2,329	151	370	72	72	149
Florida.....	11,462		9,809	1,653	4,041	183	271	38
Georgia.....	11,283	66	9,301	1,916	1,221	0	246	
Idaho.....	4,918		4,918		968	-52	133	
Illinois.....	24,392		24,392		4,180	803	2,474	847
Indiana.....	15,971	949	12,894	2,128	4,617	211	994	
Iowa.....	10,597	822	6,926	2,849	2,463	559	310	
Kansas.....	12,564	685	11,879		2,665	179	541	151
Kentucky.....	12,452		12,452		3,343	601	677	12
Louisiana.....	6,185		6,185		1,951	39	298	298
Maine.....	5,090	67	4,332	691	3,956	-21	234	160
Maryland.....	7,198		6,017	1,181	2,047	181	301	211
Massachusetts.....	11,707	1,493	10,214		2,922	0	360	312
Michigan.....	15,290	1,763	11,542	1,985	8,934	241	157	
Minnesota.....	9,614	1,382	6,547	1,685	5,510	0	236	187
Mississippi.....	7,234	452	6,782		2,044	37	153	26
Missouri.....	18,484	365	18,119		4,532	0	951	196
Montana.....	9,901	207	9,694		1,558	264	218	
Nebraska.....	8,712	404	8,308		3,001	0	228	12
Nevada.....	5,152	21	5,020	111	567	1	61	31
New Hampshire.....	3,742	117	3,193	432	2,837	36	432	
New Jersey.....	11,162	2,221	6,580	2,361	2,477	3	570	
New Mexico.....	6,643		6,643		950	296	599	
New York.....	43,228		30,734	12,494	7,192	0	568	
North Carolina.....	7,974		7,974		7,213	-19	610	111
North Dakota.....	4,980	16	4,951	13	1,280	-98	178	2
Ohio.....	26,402	510	25,892		11,997	442	1,538	416
Oklahoma.....	11,896	458	11,438		2,124	216	536	
Oregon.....	7,087	185	5,371	1,531	2,549	-155	344	274
Pennsylvania.....	48,087	120	43,620	4,347	22,693	493	8,156	1,500
Rhode Island.....	2,797	190	2,335	272	1,103	55	185	
South Carolina.....	4,533	93	4,239	201	1,404	13	230	151
South Dakota.....	4,351		4,351		917	-4	136	
Tennessee.....	9,662		9,662		2,246	90	395	
Texas.....	30,139		30,139		8,814	320	666	231
Utah.....	5,186	109	5,077		1,435	128	162	89
Vermont.....	1,955		1,955		628	0	116	
Virginia.....	9,301	528	6,553	2,220	10,537	668	541	
Washington.....	10,818	436	9,286	1,096	2,674	188	341	
West Virginia.....	5,517	294	5,223		5,500	1,074	418	23
Wisconsin.....	9,996	407	9,394	195	4,544	-12	368	
Wyoming.....	4,849		4,849		627	-20	157	36
Total.....	554,278	18,424	492,343	43,511	178,999	8,175	29,294	5,582

¹In order to obtain uniform data on state highway finance for all states, the reported income and expenditures of the State Highway Departments have been amplified, when necessary, by the addition of transactions relating to state highway debt service, balances in sinking funds and other reserves for debt service, income and expenditures of special bridge and grade separation authorities, expenditures of local authorities on state highways, and other adjustments.

²Segregation of construction expenditures by class of expenditure and system on which expended was incomplete in many states. Where expenditures were not segregated the total is given under the headings "construction of roads."

³Includes regular maintenance of roads and bridges, snow removal, highway marking and signing, and maintenance of drawbridges, ferries, and other highway utilities. Segregation of maintenance expenditures by system on which expended was incomplete in many states.

⁴In a large number of states equipment costs are charged to construction and maintenance projects, generally through a system of rentals. In these cases only the net debit or credit in the equipment account is shown. Credits are indicated by a minus sign.

⁵The classification of administrative, engineering, and miscellaneous expenditures is not uniform, as some states charge all or a large portion of overhead costs to construction and maintenance.

Expenditures in 1934

Calendar Year from Reports of State Authorities¹

Interest on State Highway Obligations ²	Total Expenditures for State-Administered Highways	Retirement of State Highway Obligations ³	OTHER EXPENDITURES OR FUND TRANSFERS	Local Roads and Streets ¹⁰	Non-Highway Purposes ¹¹	Total Expenditures ¹²	BALANCE ON HAND, DECEMBER, 31, 1934	Reserves for Debt Service	THOUSANDS OF DOLLARS
							Highway Funds	State	
2,006	\$14,015	1,701				\$15,716	282	1,741	Alabama
3,244	7,484		14	5	7,503	267			Arizona
2,450	11,416	1,279		250	17,945	2,645	44		Arkansas
	44,923	1,775	491		47,189	8,610			California
173	10,743	264		4	11,011	333	58		Colorado
	13,056	235	3,126		16,417	335			Connecticut
423	3,872	480		108	4,460	479	642		Delaware
	15,995			9	16,004	—1,191			Florida
	12,750				12,750	6,652			Georgia
78	6,045	454	94		6,593	760	167		Idaho
5,727	38,423	2,945	2,108		43,476	13,352			Illinois
	21,793			75	21,868	3,629			Indiana
4,333	18,262	4,282	1,042		23,586	2,824			Iowa
11	16,111	1,075	4,105		21,291	3,222			Kansas
476	17,560	245			17,805	—1,091	235		Kentucky
3,944	12,709	3,255	175		16,139	—426	1,002		Louisiana
1,143	10,570	898	1,512		12,988	2,004	235		Maine
708	10,645	1,888	5,601	653	18,787	2,941	220		Maryland
261	15,562	203	6,501	10,000	33,264	10,312	4		Massachusetts
2,249	26,871	1,557			28,428	6,801	24,220		Michigan
1,767	17,314	2,022	3,460		22,796	1,886	1,346		Minnesota
4,487	9,494		639		10,133	264			Mississippi
185	28,650	3,000			31,650	3,882			Missouri
	12,126	858			12,984	714			Montana
	11,953		872		12,825	943			Nebraska
26	5,838	124		56	6,018	207			Nevada
249	7,296	781	1,026		9,113	—29	235		New Hampshire
4,046	18,258	3,510	9,844		31,612	19,867	31,193		New Jersey
708	9,196	1,023			10,219	663	187		New Mexico
6,701	57,689	2,573			60,262	19,000	44,709		New York
4,521	20,410	4,693		1,000	26,103	7,478	7,218		North Carolina
2	6,344	100	716		7,160	412			North Dakota
	40,795		3,272		44,067	5,532			Ohio
	14,772				14,772	—1,102			Oklahoma
1,230	11,329	2,175	1,600		15,116	1,985			Oregon
3,742	84,671	3,118	733	3,797	92,469	4,095	16,646		Pennsylvania
243	4,383			698	5,081	1,304	1,603		Rhode Island
3,266	9,597	4,074	1		13,672	1,110	2,420		South Carolina
	5,400		1,323		6,818	739			South Dakota
4,499	16,892	350	82	1,148	18,472	6,436	1,164		Tennessee
	40,170				40,170	6,704			Texas
325	7,325				7,325	453	5,345		Utah
247	2,946	425	2,534		5,905	1,620			Vermont
215	21,262		387	39	21,688	139	652		Virginia
	14,021		6,136	1,084	21,241	1,210			Washington
3,445	15,977	3,573			19,550	1,072	3,124		West Virginia
9	14,905	3,483	7,421	4,601	30,410	9,557			Wisconsin
164	5,813	160		10	5,983	504	73		Wyoming
67,303	843,631	58,578	64,815	23,537	991,774	159,385	144,483	Total	

¹—Expenditures for state highway police are recorded only in the case of those states which reported such expenditures as a part of their state highway finances.

²—Includes interest on state highway and bridge bonds, notes, etc., and on county or local obligations assumed as reimbursement for local roads added to the state system.

³—Includes payments in retirement of state highway bonds, notes, etc., and of county or local obligation-assumed as reimbursement for local roads added to state system. Payments to sinking fund are not included, as they are merely transfers from highway funds to reserves for debt service.

¹⁰—Includes expenditures by or under supervision of state highway departments on local roads and streets, and transfers to local units for work on local roads and streets or for service of local highway obligations, in cases where such transfers were reported as expenditures of the state highway departments.

¹¹—Includes expenditures or transfers for relief of unemployment or destitution, transfers to state general funds, and other non-highway expenditures.

¹²—Expenditures for other than "local roads and streets" not on state system are included in "Total Expenditures" in following states: Maine 8,000; Mass. 938,000; N. H. 10,000; Ore. 12,000; Penn. 150,000; S. D. 95,000; total \$1,213,000.

48,500 Communities, Without Railroads, Depend on Motor Transport Service

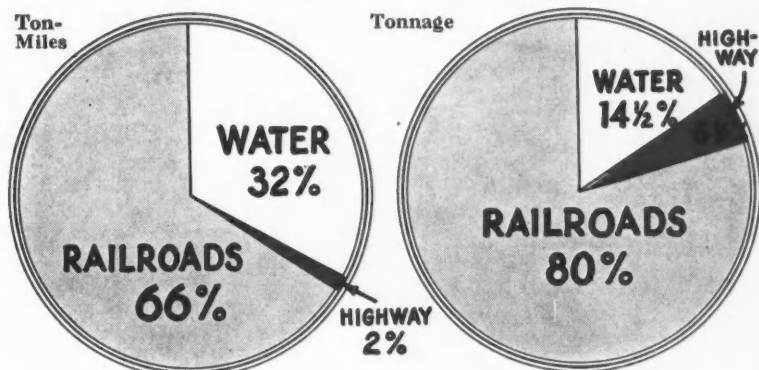
40% of All Communities and More Than 6% of Population Depend Almost Entirely Upon Highway Vehicles

STATE	COMMUNITIES			POPULATION		
	Total Communities	Not Served by R.R. No.	% of All	Population July 1, 1932	Not Served by R.R. No.	% of Total
Alabama.....	2,819	895	31.7	2,682,000	200,171	7.5
Arizona.....	819	264	32.2	448,000	42,785	9.6
Arkansas.....	3,108	1,298	41.7	1,867,000	118,566	6.4
California.....	5,482	2,240	40.8	5,947,000	351,123	5.9
Colorado.....	2,372	612	25.8	1,047,000	47,502	4.5
Connecticut....	740	319	43.1	1,634,000	222,344	13.6
Delaware.....	265	117	44.1	240,000	13,410	5.6
Florida.....	2,514	636	25.2	1,528,000	94,132	6.2
Georgia.....	3,107	840	27.0	2,910,000	95,813	6.3
Idaho.....	1,246	333	26.7	447,000	35,593	8.0
Illinois.....	4,236	826	19.4	7,768,000	141,198	1.8
Indiana.....	3,106	1,213	39.0	3,275,000	137,702	4.2
Iowa.....	2,248	642	28.5	2,479,000	53,670	1.8
Kansas.....	2,185	475	21.7	1,894,000	29,722	1.6
Kentucky.....	4,530	3,575	78.9	2,638,000	309,750	11.7
Louisiana.....	2,881	765	26.5	2,138,000	60,861	2.8
Maine.....	1,860	946	50.8	801,000	277,523	34.6
Maryland.....	1,932	1,062	54.9	1,653,000	150,521	9.1
Massachusetts..	1,493	568	38.0	4,297,000	283,587	6.6
Michigan.....	3,657	1,251	34.2	4,983,000	364,956	7.3
Minnesota.....	2,544	841	33.0	2,585,000	74,746	2.9
Mississippi.....	2,355	915	38.8	2,036,000	65,851	3.2
Missouri.....	4,246	2,102	49.5	3,656,000	194,583	5.3
Montana.....	16,09	529	32.8	537,606	30,423	5.7
Nebraska.....	1,304	307	23.5	1,388,000	15,130	1.1
Nevada.....	556	149	26.7	93,000	12,059	13.0
New Hampshire..	715	341	47.6	468,000	82,491	17.6
New Jersey.....	1,761	599	34.0	4,148,000	306,100	7.4
New Mexico.....	1,100	524	47.6	431,000	112,192	26.0
New York.....	5,107	2,484	48.6	12,852,000	605,834	4.7
North Carolina..	3,285	1,329	40.4	3,244,000	189,038	5.8
North Dakota...	1,054	192	18.2	685,000	8,182	1.2
Ohio.....	3,919	1,985	50.6	6,753,000	510,891	7.6
Oklahoma.....	2,050	834	40.6	2,440,000	112,486	4.6
Oregon.....	1,904	789	41.4	974,000	71,353	7.3
Pennsylvania....	8,956	3,835	42.8	9,741,000	954,558	9.8
Rhode Island...	280	137	48.9	698,000	77,147	11.1
South Carolina..	1,902	520	27.3	1,745,000	114,955	6.6
South Dakota...	1,000	379	37.9	700,000	16,873	2.4
Tennessee.....	3,202	1,679	52.4	2,650,000	105,450	4.0
Texas.....	6,710	2,265	33.7	5,964,000	216,891	3.6
Utah.....	1,082	374	34.5	515,000	79,938	15.5
Vermont.....	629	308	48.9	360,000	100,253	27.8
Virginia.....	4,553	2,365	51.9	2,435,000	266,661	11.0
Washington.....	2,655	948	35.7	1,588,000	127,582	8.0
West Virginia...	4,054	1,622	40.0	1,761,000	174,598	9.9
Wisconsin.....	2,615	970	37.0	2,976,000	166,045	5.6
Wyoming.....	736	293	39.8	229,000	21,270	9.3
TOTALS....	122,473	48,492	39.6	124,328,606	7,844,509	6.3

Note—Population in 15,017 communities without railroad is not available and hence not included in population figures of those communities not served by railroads. 5,492 communities have interurban electric railway service but primarily for passenger service.

Motor Trucks Move 2% of Ton Miles and 5½% of Carload Tonnage

(Based on Volume III, Freight Traffic Report, Coordinator of Transportation)



Ton-Miles By Agencies of Transportation

(Carload Traffic) (000,000 Omitted)

	Aggregate Ton-Miles	Railroad Ton-Miles	%	Water Ton-Miles	%	Highway Ton-Miles	%
Outbound . . .	66,928	46,180	69	19,409	29	1,339	2
Inbound . . .	36,729	21,303	58	14,692	40	734	2
Inbound Fuel	9,101	6,917	76	2,093	23	91	1
Total . . .	112,758	74,400	66	36,194	32	2,164	2

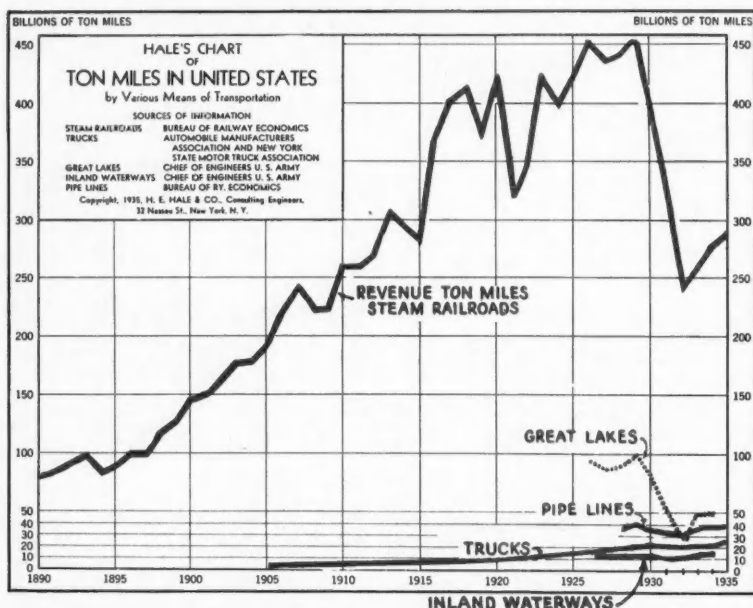
Tonnage By Agencies of Transportation

(Carload Traffic) (000 Omitted)

	Aggregate Tons	Railroad	%	Water	%	Highway	%
Outbound . . .	160,792	131,849	82	19,295	12	9,648	6
Inbound . . .	87,167	67,119	77	14,818	17	5,230	6
Inbound Fuel	42,244	32,950	78	8,027	19	1,267	3
Total . . .	290,203	231,918	80	42,140	14.5	16,145	5.5

Survey covered shippers whose rail tonnage represented 35% of the total carlot tonnage in 1932, shippers reporting extent to which various transportation agencies were used. On highway hauls shippers were asked to report amount shipped on trucks in lots of 5 tons or more for distances of 25 miles and over. "Outbound" and "inbound" refers to shipments sent from or received at shipper's establishment.

Ton-Miles of Freight by Methods of Transportation



The truck ton-miles curve includes estimates of urban local hauling as well as inter-city hauling, and includes non-revenue as well as for-hire haulage.

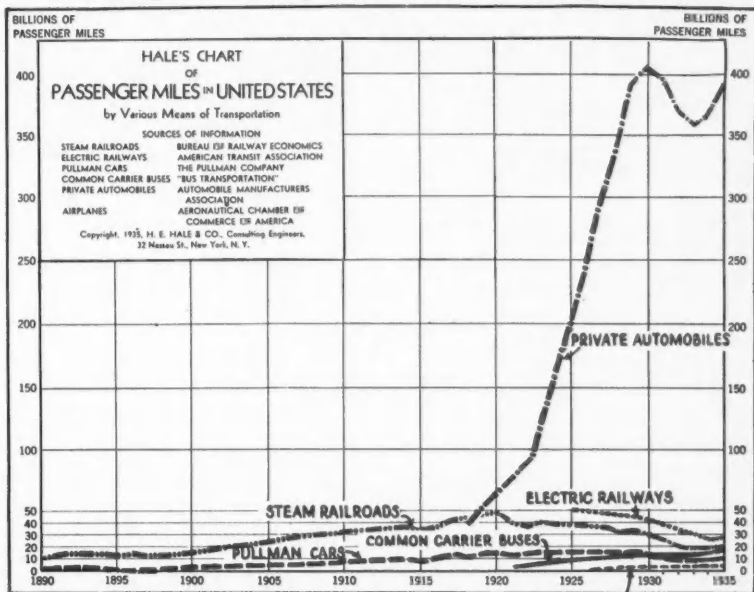
Railroad Use of Trucks Increased 70% in 1935

(Figures from Simmons-Boardman Publishing Co.)

Year	Terminal Transfer Service	Intercity Service	Store Door Delivery Service	Total No. in Service	Percent Increase
1925.....	800	100	0	900	.....
1926.....	1,450	150	0	1,600	78%
1927.....	2,900	400	0	3,300	106%
1928.....	4,350	550	0	4,900	48%
1929.....	4,500	750	650	5,900	20%
1930.....	4,750	850	1,400	7,000	19%
1931.....	5,000	950	4,050	10,000	43%
1932.....	5,500	1,000	5,500	12,000	20%
1933.....	6,750	1,150	15,100	23,000	92%
1934.....	7,175	1,275	16,857	25,307	10%
1935 estimated	.....	.....	.....	43,000*	70%

*In addition 23,000 trucks are owned and operated indirectly by railroads.

Passenger Miles by Methods of Transportation



One Out of Every Seven Rail Freight Carloads Is Automotive

Year	All Traffic, Carloads (I.C.C. Statistics)	Automotive Freight Carloads*	Automotive Freight Per Cent of Total Carloads	Revenue From Automotive Freight
1929	36,821,868	3,667,792	10.0%	\$563,411,000
1930	31,479,071	3,330,583	10.6%	478,466,000
1931	24,631,961	3,106,645	12.6%	396,738,000
1932	18,067,496	2,543,833	14.1%	325,000,000
1933	19,278,087	2,640,910	13.7%	324,320,000
1934	21,223,443	3,064,805	14.4%	365,021,000
1935	21,779,757	3,361,601	15.5%	416,234,000

* Includes freight produced by motor vehicle manufacture and use and highway construction.

Shipments of Assembled Passenger Cars and Motor Trucks

From Factories and Assembling Plants in United States, including Exports

Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat	Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat
1929	733,631	1,958,738	199,576	1933	198,827	930,303	126,258
1930	423,486	1,412,450	99,414	1934	318,294	1,209,291	154,540
1931	283,858	1,050,545	85,609	1935	401,949	1,904,597	272,458
1932	130,820	706,977	51,103				

Steamship Space Used in 1935 Exports of Motor Vehicles Nearly Three Times Greater Than 1933

The major tonnage of important steamship lines consists of automobiles and parts enroute to foreign countries. In 1935, 93,362,113 cubic feet of steamship space was used for exports of passenger cars, trucks and parts made by motor vehicle manufacturers as compared with 75,083,312 in 1934 and 33,032,282 in 1933.

3,361,600 Carloads Automotive Freight

Automotive Proportion of all Railroad Carloads

Products of	All Traffic, Carloads (I. C. C. Statistics)	Of which Auto Mfg. and Use and Highway Building Products (See table opposite)	
		Carloads	Per Cent
Manufactures and Miscellaneous..	7,590,812	2,499,981	*32.9%
Forests and Mines.....	9,961,829	861,620	†8.6%
All other Carload Traffic.....	4,227,116	.....	.....
Total carload traffic originated.	21,779,757	3,361,601	15.5%

*In 1931—28.8%; 1932—34.4%; 1933—32.7%; 1934—33.0%.

†In 1931—7.6%; 1932—8.4%; 1933—8.0%; 1934—8.4%.

Rail Carloads of Automobiles, Trucks, Parts and Tires, 1935

(From Railroad Commodity Reports)

EASTERN LINES	Carloads		Total Carloads	Revenue
	Originated	Received from Connections		
N. Y. C. Lines (B. & A. R.R.—C. C. C. & St. L. Lines—M. C. R.R.—N. Y. C. R.R.—P. & L. E. R.R.).....	178,025	45,138	223,163	\$15,728,126
G. T. W. R.R.....	96,350	10,464	106,814	5,045,285
D. T. & I. R.R.....	61,876	5,610	67,486	2,597,206
P. M. R.R.....	43,037	7,498	50,535	2,800,638
Penna. R.R.....	21,928	2,834	24,762	4,349,148
Erie R.R.....	18,098	33,181	51,279	3,347,898
B. & O. R.R.....	13,394	27,194	40,588	2,820,936
Wabash Ry.....	9,563	54,737	64,300	4,556,805
Ann Arbor R.R.....	11	3,821	3,832	208,256
Reading Co.....	6,428	17,054	23,482	756,479
C. R.R. of N. J.....	15	6,012	6,027	146,331
A. C. & Y. Ry.....	9,011	35	9,046	363,013
N. & W. Ry.....	2,372	8,820	11,192	1,092,919
D. & T. S. L. R.R.....	4,207	14,896	19,103	361,476
N. Y. C. & St. L. R.R.....	2,613	9,948	12,561	769,454
B. & M. R.R.....	1,231	18,317	19,548	959,861
C. & O. Ry.....	969	7,865	8,834	635,453
N. Y. S. & W. R.R.....	1,346	7,359	8,705	327,586
D. L. & W. R.R.....	530	20,241	20,771	1,368,812
C. I. & L. R.R.....	722	2,476	3,198	145,041
C. & E. I. Ry.....	553	6,314	6,867	325,362
L. V. R.R.....	517	24,444	24,961	1,775,493
W. & L. E. Ry.....	383	12,141	12,524	341,404
N. Y. N. H. & H. R.R.....	220	15,318	15,538	726,656
D. & H. R.R.....	359	10,263	10,622	254,031
W. Md. Ry.....	90	8,273	8,363	287,356
Virginian.....	83	4,319	4,402	296,555
C. P. Lines in Me. and Vt.....	1	5,835	5,836	98,503
P. & W. Va. Ry.....	.....	7,138	7,138	122,473
Miscellaneous.....	86	23,584	23,670	525,679
Total Eastern Lines.....	474,018	446,549	920,567	\$53,133,235
SOUTHERN LINES				
Southern Ry.....	20,324	14,187	34,511	\$2,144,923
C. N. O. & T. P. Ry.....	757	12,135	12,892	1,198,260
M. & O. R.R.....	394	1,789	2,183	175,378
A. G. S. R.R.....	115	1,870	1,985	89,067
N. O. & N. E. R.R.....	54	1,331	1,385	75,379
G. S. & F. Ry.....	125	3,067	3,192	142,794
Ill. Cent. R.R.....	9,927	29,917	39,837	3,670,615
C. of Ga. Ry.....	34	3,553	3,587	167,756
L. & N. R.R.....	3,396	7,284	10,680	975,770
A. C. L. Ry.....	1,773	5,804	7,577	625,124
S. A. L. Ry.....	1,231	6,230	7,461	600,132
Norfolk Southern R.R.....	771	1,592	2,363	189,640
G. M. & N. R.R.....	219	2,908	3,127	288,880
Ga. R.R.....	10	1,337	1,347	49,142
N. C. & St. L. Ry.....	25	4,125	4,150	283,230
Clinchfield, R.R.....	1	3,614	3,615	197,913
Miscellaneous.....	60	7,036	7,096	331,177
Total Southern Lines.....	39,216	107,772	146,988	\$11,209,180

(Continued on following page)

Eight Pay Railroads \$416,234,000 in 1935

Automotive Freight 3,361,600 Carloads

	Carloads*		Carloads*
Motor vehicles, parts, tires . . .	641,681	Crude rubber	9,220
Gasoline	1,119,000	Asphalt for roads	60,100
Iron and steel	232,000	Brick, vitrified	10,000
Coal and coke	74,300	Cement for roads, bridges . . .	227,000
Crude petroleum	50,300	Gravel, sand, stone for roads .	639,000
Lubricating oil	76,500	Miscellaneous, such as non-	
Lumber	28,700	ferrous metals, paints, up-	
Road and fuel oil	39,800	holstery materials	154,000

Total Automotive Freight Carloads 3,361,601

Rail Revenues from Automotive Freight \$416,234,187

*Partly estimated by Automobile Manufacturers Association.

WESTERN LINES

	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
Mo. Pac. R.R.	25,452	20,468	45,920	\$3,689,579
St. L., Brownsville & M. Ry.	9	945	954	117,230
Int. Gt. Northern Ry.	93	4,590	4,683	435,056
N. O. T. & M. Ry.	47	843	890	36,931
T. & P. Ry.	3,317	13,864	17,181	1,262,185
C. M. St. P. & P. R.R.	24,687	16,823	41,510	3,403,314
C. & N. W. Ry.	16,994	21,640	38,634	2,369,584
C. St. P. M. & O. Ry.	872	7,640	8,512	349,479
So. Pac. Co. (Pac. Lines)	18,541	18,650	37,191	5,604,303
T. & N. O. R.R.	912	11,382	12,294	1,400,959
A. T. & S. Fe Ry.	5,781	26,845	32,626	7,682,962
St. L. S. F. Ry.	6,843	6,515	13,358	1,251,502
St. L. S. F. & Texas Ry.	50	1,132	1,182	49,950
C. B. & Q. R.R.	4,241	15,958	20,199	1,929,334
Col. & Southern Ry.	14	1,120	1,134	49,765
M. K. T. R.R.	4,552	7,175	11,727	1,713,074
St. L. S. W. Ry.	4,743	8,672	13,415	1,920,746
C. R. I. & P. Ry.	3,722	16,576	20,298	2,452,656
C. R. I. & G. Ry.	41	5,045	5,086	118,547
K. C. S. Ry.	1,794	5,850	7,644	574,600
Union Pacific R.R.	48	29,425	29,473	5,306,693
L. A. & S. L. R.R.	880	5,727	6,607	1,296,656
O. S. L. R.R.	29	11,605	11,634	947,380
O. W. R.R. & Nav. Co.	12	3,774	3,786	358,687
St. J. & G. I. Ry. . . . .	.....	6,205	6,205	79,228
Gt. Nor. Ry.	1,956	9,139	11,095	1,775,215
C. G. W. R.R.	629	7,662	8,291	627,018
M. St. P. & S. S. M. Ry.	599	3,392	3,991	373,752
Western Pac. R.R.	204	4,339	4,543	601,050
Alton R.R.	83	3,283	3,366	213,181
Nor. Pac. Ry.	883	7,941	8,824	1,578,701
La. & Ark. Ry.	77	3,437	3,514	185,466
S. P. & S. Ry.	106	3,065	3,161	153,016
D. & R. G. W. R.R.	14	8,422	8,436	944,902
M. & St. L. R.R.	69	2,614	2,683	119,090
Kan. Okla. & Gulf Ry. . . . .	.....	4,796	4,796	238,927
G. B. & W. R.R. . . . .	.....	2,154	2,154	114,502
Miscellaneous	153	10,629	10,782	516,552
Total Western Lines	128,447	339,332	467,779	\$51,841,772
TOTAL U.S. AUTOS, TRUCKS AND PARTS, INCLUDING TIRES	641,681	893,653	1,535,334	\$116,184,187

Leading Motor Vehicle Fleets in the United States

Does Not Include All Fleets With More Than 100 Vehicles

(Survey as of May, 1936 by Automobile Manufacturers Association)

Fleet Owner	No. of Trucks†	Passenger Cars	Fleet Owner	No. of Trucks†	Passenger Cars
Bell Telephone Companies	13,000	4,200	Brink's Express Co.	600	10
Standard Oil Co. of N. J.	12,000	4,000	Humble Oil & Refining Co.	599	575
U. S. War Department	8,818*	720	Florida State Road Dept.	588	121
Railway Express Agency	8,454	221	Kansas State Highway Com.	576	211
Borden's	6,694	829	Sun Oil Co.	546	338
Standard Oil Co. of Ind.	6,633	1,683	Dairymen's League Coop.	539	230
National Dairy Products	6,020	736	Minn. Dept. of Highways	538	206
*U. S. War Dept.	5,791	734	Shell Eastern Petroleum Producers	534	500
Socony-Vacuum Oil Co.	3,983	2,249	Philadelphia Elec. Co.	530	328
Continental Baking Co.	3,830	200	Standard Oil Co. of Ky.	521	210
Swift & Co.	3,180	2,900	N. Y. State Highway Div.	513	32
*Cities Service Co. (Subsidi.).	2,800	1,200	Detroit Division of Motor Transportation	503	585
Middle West Service Co.	2,750	30	Consolidated Laundries Corp.	495	20
General Baking Co.	2,804	580	Burns Bros.	491	25
Standard Brands, Inc.	2,695	162	*National Refining Co.	483	18
N. Y. City Dept. of Sanit.	2,265	30	Associated Oil Co.	475	199
Ward Baking Co.	2,249	1,039	Kroger Grocery & Baking Company	475	100
Armour & Company	2,093	1,598	Goodyear Tire & Rubber Co.	464	886
Calif. Dept. of Finance	1,900	850	Tide Water Oil Co.	456	20
N. Y. State Div. of Standards & Purchases	1,898	315	*U. S. Bureau of Pub. Roads	451	217
N. C. State Highway Com.	1,853	1,508	Rubel Ice Corporation	443	45
Standard Oil Co. of Calif.	1,813	540	Los Angeles Co. Mech. Dept.	432	283
Ohio Highway Dept.	1,694	201	Commonwealth Edison Co.	417	307
U. S. Navy Department	1,681	18	City Ice & Fuel Co.	393	10
*Purity Baking Corp.	1,645	88	R. H. Macy & Co.	381	17
Texas State Highway Dept.	1,593	406	Crane Co.	368	775
Pacific Gas & Elec. Co.	1,531	90	Pie Bakers Inc.	341	19
Jewel Tea Co. Inc.	1,525	1,423	Federal Water Service Corp.	322	310
Quality Bakers of America	1,500	264	Postal Telegraph & Cable Company	319	116
The Texas Company	1,493	1,395	Philadelphia Bu. of Maintenance & Repairs	317	198
Beatrice Creamery Co.	1,482	538	N. Y. Power & Light Corp.	302	124
National Biscuit Co.	1,395	1,525	Mass. Dept. of Public Works	281	371
Hertz Driv-ur-Self Stations	1,392	1,644	Beech-Nut Packing Co.	273	63
Pure Oil Co.	1,275	105	Consumers Power Co.	264	747
Gulf Refining Co.	1,245	1,236	Marshall Field & Co.	256	27
Virginia Highway Dept.	1,236	1,200	Southern California Edison N. Y. City Dept. of Water, Gas & Elec.	252	98
United Parcel Service	1,200	521	Continental Oil Co.	251	930
Penna. Dept. of Highways	1,161	462	Pittsburgh Plate Glass Co.	244	660
Calif. Dept. of Pub. Works	1,145	566	Cleveland Elec. Illum. Co.	214	228
Illinois Division of Highways	1,143	982	Hoffman Beverage Co.	209	120
Shell Oil Company	1,098	4 51	San Joaquin Lt. & Pr. Co.	209	224
Atlantic Refining Co.	1,061	800	Empire Oil & Ref. Co.	203	340
Cudahy Packing Company	1,040	1,031	General Cigar Co.	202	81
Western Dairy Products Co.	1,031	492	N. Y. & Queens Elec. Light & Power Co.	183	131
Indiana Highway Com.	1,002	117	Ohio Edison Co.	181	165
U. S. Dept. of Commerce	980	1,315	Liquid Carbonic Corp.	176	300
Shell Petroleum Corp.	964	167	Brooklyn Edison Co. Inc.	152	60
Union Oil Co. of Calif.	963	190	The Motor Haulage Co. of Edison Elec. Illum. Co. of Boston	140	5
Metropolitan Distributors	930	175	Brooklyn Union Gas Co.	139	263
Sinclair Refining Co.	912	451	Georgia Power Co.	132	399
General Ice Cream Corp.	904	85	Boston Elevated Rwy. Co.	124	50
Cons. Edison Co. of N. Y. Inc.	903	10	Gristede Bros. Inc.	122	21
Golden State Co. Ltd.	866	418	N. Y. City Police Dept.	114	679
United States Trucking Co.	858†	425	Western Union Telegraph	110	.....
Los Angeles Dept. of W. & P.	832	750	* 1935 figures; 1936 not available.		
General Foods Corp.	770	754	† In addition the companies listed above operate a combined total of 5,924 trailers and 502 busses.		
*Loose-Wiles Biscuit Co.	750	291	‡ In addition 650 Trailers. —Also 200 trailers.		
Standard Oil Co. of Ohio	754	842	—Also 2,613 trailers, 365 ambulances and 926 motorcycles. Combat vehicles not included.		
Firestone Tire & Rubber Co.	749	90			
Keeshin Motor Express Co.	740‡	190			
Mich. State Highway Dep.	696	188			
American Ice Co.	690	968			
Penna. Dept. of Prop. & Sup.	687	22			
Amer. Gas & Elec. Co.	686	256			
Tennessee Dept. Highways & Public Works	648	1,050			
B. F. Goodrich Co.	646	1,929			
Standard Gas & Electric	640	40			
Great America Tea Co.	635	117			
N. Y. City Fire Dept.	624				

Dimensions, Speed and Gross Weight for Vehicles

Recommended by
American Association of State Highway Officials

What Is Recommended* (Maximums)

Width—8 feet. **Height**—12 feet, 6 inches.

Length—Single vehicle†, 35 feet. Combinations (only two units allowed), 45 feet.

Speed—Minimum: Not so slow as to impede or block normal and reasonable flow of traffic except when necessary for safety.

Maximum: no bus or truck greater than 45 miles an hour; passenger automobile speeds shall be consistent with safety and proper use of the roads.

Solid tire vehicles maximum speed set at 10 miles an hour.

Axle and Wheel Loads

Axle load equipped with solid, cushion or high pressure pneumatics..... 16,000 lbs.

Wheel load..... 8,000 lbs.

Low pressure pneumatics, wheel load..... 9,000 lbs.

Gross Weights‡

Subject to the limitation imposed by the recommended axle loads no vehicle shall be operated whose total gross weight, with load, exceeds that given by the formula

$W = c(L \text{ plus } 40)$ where—

W = total gross weight, with load, in pounds.

c = a coefficient to be determined by the individual states.

L = the distance between the first and last axles of a vehicle or combination of vehicles, in feet.

A value of 700 is recommended for “ c ” as the lowest which should be imposed but this should not be construed as inhibiting greater values.

Why Recommended

- To establish one of the fundamental prerequisites of highway design.
- To promote efficiency in the interstate operation of the motor vehicle.
- To secure safety in highway operation.
- To remove from the highways undesirable equipment and operations.
- To stabilize on a definite basis the many relationships between the highway and the motor vehicle.

Groups Which Have Approved Recommendations

American Automobile Association
American Farm Bureau Federation
American Motorists Association
American Petroleum Institute
Automobile Manufacturers Association
Detroit Board of Commerce

National Assoc. of Motor Bus Operators
National Grange
National Highway Users Conference
National Industrial Traffic League
National Transportation Committee
Rubber Manufacturers Association

*Special permits required for occasional movements of materials exceeding dimensions provided.

†Truck tractor and semi-trailer construed as single vehicle in determining lengths.

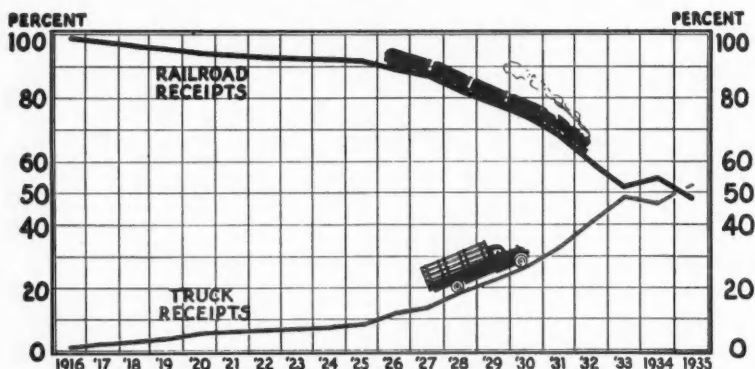
‡This gross weight recommendation is particularly applicable to bridges since axle loads and length limitations are determinative in their practical application.

Present Regulations Compared with Recommendations

NUMBER OF STATES WITH MAXIMUM

	Larger Same Smaller				Larger Same Smaller		
Width.....	2	45	2	Length, Single.....	10	17	22
Height....	14	23	12	Length, Combination....	24	14	11
Axle Load..	27	15	7	Lgth., Trac. Semi-Trailer	37	8	4

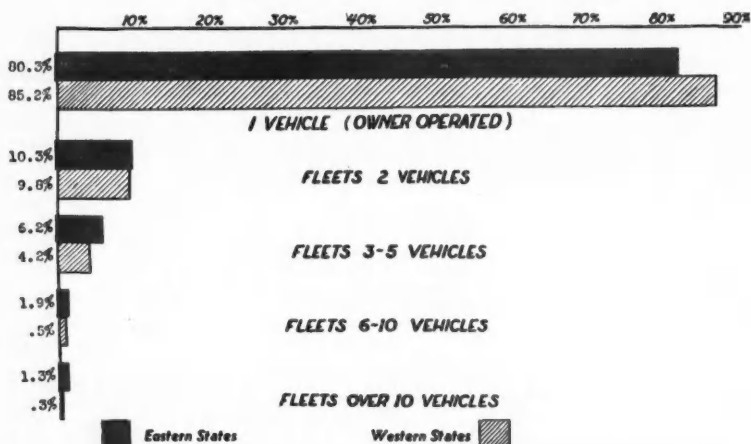
Livestock Receipts by Truck Increasing



Note: Includes receipts at Chicago, Cincinnati, Denver, E. St. Louis, Forth Worth, Indianapolis, Kansas City, Louisville, Milwaukee, Oklahoma City, Omaha, Portland, St. Joseph, St. Paul, Sioux City, Sioux Falls and Wichita.

82% of For-Hire Trucking Enterprises Operate Only One Vehicle

(1935 Analysis by American Trucking Associations, Inc.)



Eastern states analyzed: Michigan, New Jersey, New York, Ohio, and Pennsylvania.
Western states analyzed: Iowa, Kansas, Minnesota, Missouri and Nebraska.

Trailer Registrations, 1928-1935

Includes Passenger Car Trailers

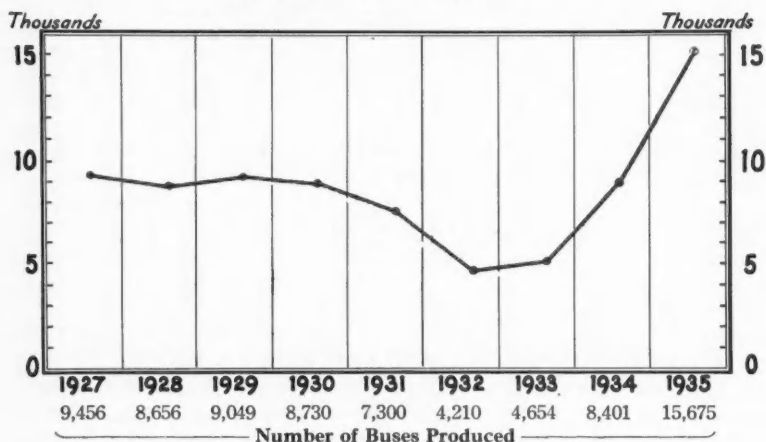
(Figures from U. S. Bureau of Public Roads)

STATES	1928	1929	1930	1931	1932	1933	1934	1935
Alabama.....	1,952	3,024	3,550	3,279	3,948	4,007	4,671	5,586
Arizona.....	809	1,249	1,346	1,623	1,765	1,989	2,313	2,835
Arkansas.....	2,054	2,808	2,805	3,745	3,118	6,887	7,950	9,398
California.....	37,073	42,899	48,532	55,024	61,870	72,696	82,110	95,233
Colorado.....	85	159	188	258	563	832	946	968
Connecticut...	224	324	480	926	1,384	1,816	2,370	3,092
Delaware.....	301	389	412	517	649	912	1,356	1,863
Florida.....	1,000 ⁴	900	5,000	6,751	7,522	9,567	9,886	11,256
Georgia.....	816 ⁵	2,597	2,704	3,317	4,021	5,836	9,293	10,823
Idaho.....	264	485	450	7,558	9,924	10,039	11,733	12,925
Illinois.....	3,742	5,068	7,341	9,283	8,950	9,228	10,720	14,439
Indiana.....	7,884	10,407	13,646	19,169	23,570	27,996	34,425	43,013
Iowa.....	230	528	1,542	3,207	2,833	2,416	44,477	50,244
Kansas.....	359	360	1,083	1,778	2,014	3,847	3,733	4,045
Kentucky.....	6	6	6	6	6	7	7	8
Louisiana.....	4,000	8,000	5,443	5,670	6,624	6,957	6,528	9,196
Maine.....	1,068	1,652	2,207	3,053	4,195	5,893	7,578	8,464
Maryland.....	683	876	1,008	1,128	1,327	1,383	1,434	1,750
Massachusetts	547	556	701	650	525	525	752	507
Michigan.....	23,198	31,577	44,441	61,932	77,437	78,998	92,184	102,975
Minnesota...	3,894	4,783	9,541	18,291	21,839	19,648	24,707	24,260
Mississippi...	2,919	4,321	3,890	2,560	2,594	850	707	809
Missouri.....	2,004	2,686	3,742	5,469	10,008	13,110	18,024	22,550
Montana.....	.....	.....	56	59	61	483	506	2,256
Nebraska.....	2,975	6,515	10,320	15,737	13,531	14,727	18,640	20,461
Nevada.....	178	273	330	411	646	631	910	847
N. Hampshire	545	635	935	1,137	1,448	1,922	2,354	3,173
New Jersey...	1,996	2,424	2,639	2,916	2,863	3,162	3,734	4,431
New Mexico...	340	509	850	778	591	983	918	889
New York.....	7,148	8,232	10,205	12,596	13,796	13,545	17,417	23,451
No. Carolina...	1,944	3,584	5,845	8,118	7,774	13,012	20,649	29,389
No. Dakota...	.....	.....	6	6	39	143	263	215
Ohio.....	14,606	15,000	24,356	32,717	45,588	61,156	73,287	95,216
Oklahoma.....	.....	.....	6	6	6	4,184	5,420	6,452
Oregon.....	1,238	1,308	1,893	2,168	1,706	1,750	1,276	3,558
Pennsylvania.	4,285	5,067	5,684	6,307	7,835	10,139	13,642	19,732
Rhode Island.	61	87	90	64	68	92	147	216
So. Carolina...	1,637	2,048	2,976	2,100	2,041	1,764	1,919	2,759
So. Dakota...	.....	.....	7	4,994	8,852	9,693	10,128	12,568
Tennessee...	7	7	7	2,696	3,294	2,982	2,991	836
Texas.....	11,955	16,260	29,853	33,861	35,113	36,073	36,978	38,262
Utah.....	.....	.....	767	879	879	457	1,359	1,226
Vermont.....	218	280	315	457	519	683	964	1,321
Virginia.....	646	966	1,318	1,582	1,673	1,906	2,509	3,694
Washington...	2,279	2,986	3,147	3,000	4,543	4,849	5,470	7,776
West Virginia.	600	725	928	1,270	1,785	2,094	1,084	2,189
Wisconsin...	412	497	715	1,007	1,066	2,565	8,466	7,610
Wyoming.....	.....	.....	6	6	6	20	5,398	7,279
Dist. of Col...	.....	.....	.....	.....	607	1,112	1,169	1,377
Totals....	148,169	193,044	262,507	349,930	412,998	475,559	615,315	733,414

¹—Light trailers only. Heavy trailers reported with trucks. ²—Contract and common carrier trailers reported with trucks. ³—Estimated and excluded from motor trucks as reported. ⁴—Reported with tractors, but here separated as per semi-annual report. ⁵—Not registered. ⁶—Classified with trucks. ⁷—Not reported. ⁸—Estimated.

Bus Production Sets New High Record

(Figures from "Bus Transportation")



117,850 Motor Buses in United States, 1935

(Figures as of December 31st from "Bus Transportation")

REVENUE	1930	1931	1932	1933	1934	1935
1. City.....	13,350	14,050	16,225	16,500	17,580	19,250
2. Intercity.....	28,550	28,350	26,706	26,314	22,820	23,750
Total (1 + 2).....	41,900	42,400	42,931	42,814	40,400	43,000
3. Sightseeing and charter hire.....	2,750	3,000	2,069	2,186	2,600	2,000
Total (1 + 2 + 3)...	44,650	45,400	45,000	45,000	43,000	45,000
4. Interstate†.....	5,000	6,600	7,000	8,000	8,600	9,700
NON-REVENUE						
5. Schools*.....	45,000	51,500	59,000	60,300	64,130	71,850
6. Hotel.....	750	700	500	350	300	300
7. Industrial.....	1,000	900	800	600	500	500
8. Miscellaneous.....	400	400	400	250	200	200
Total (5 + 6 + 7 + 8)	47,150	53,500	60,700	61,500	65,130	72,850
Grand Total.....	91,800	98,900	105,700	106,500	108,130	117,850
a. Motor carriers.....	31,064	31,850	32,213	33,280	29,990	30,650
b. Electric railways.....	11,827	12,050	11,541	11,000	11,600	12,600
c. Steam railroads.....	1,759	1,500	1,246	720	1,410	1,750

*About 6,000 buses in school service are operated part time as common carriers, and consequently are included in the figure for that service.

† Some interstate buses may be included in 1 and 2.

Bus Census by States—1927-1935

(This is a compilation of statistics obtained as a result of actual censuses conducted by "Bus Transportation." Figures indicated for the 1931 census may be accepted as embracing approximately 94 per cent of the bus operation in the United States. Due to improvement of census machinery "Bus Transportation" has been enabled to present a more comprehensive picture of the nation's bus operations with each succeeding year, and figures since 1931 approximate 100 per cent.)

	1928	1929	1930	1931	1932	1933	1934	1935
Alabama.....	1,230	1,225	2,379	2,376	2,505	2,391	2,491	2,605
Arizona.....	387	434	608	509	1,041	827	787	690
Arkansas.....	587	861	1,441	1,450	1,524	1,357	1,354	1,567
California.....	3,989	4,195	4,349	4,289	5,165	4,282	4,027	4,490
Colorado.....	1,157	1,299	1,504	985	1,375	1,097	1,258	1,693
Connecticut.....	920	1,227	1,214	1,228	1,276	1,196	1,331	1,388
Delaware.....	221	206	211	258	237	272	254	258
Dist. of Col.....	302	327	344	368	390	356	373	522
Florida.....	1,599	1,507	1,671	1,564	1,151	1,754	1,801	1,890
Georgia.....	1,020	1,484	1,505	1,791	2,785	2,571	2,781	2,532
Idaho.....	441	485	536	515	534	425	457	602
Illinois.....	2,230	2,493	2,390	2,077	1,596	1,800	1,736	2,322
Indiana.....	6,676	7,044	7,071	7,307	7,542	7,144	7,223	8,975
Iowa.....	1,602	1,990	1,952	2,753	2,122	1,990	2,665	2,782
Kansas.....	700	784	841	814	850	816	826	968
Kentucky.....	599	652	764	755	1,023	1,270	1,099	1,392
Louisiana.....	1,787	2,458	2,665	2,666	2,727	2,723	2,725	2,872
Maine.....	324	307	314	259	638	564	656	715
Maryland.....	895	853	1,289	1,401	1,282	1,363	1,269	1,295
Massachusetts.....	2,822	2,915	3,064	3,180	3,540	3,401	3,662	4,089
Michigan.....	2,539	2,828	2,785	2,768	2,700	2,027	1,988	2,106
Minnesota.....	1,814	1,800	1,978	2,010	2,153	2,224	2,251	2,331
Mississippi.....	3,176	3,208	3,227	2,889	4,110	4,089	4,401	4,425
Missouri.....	879	833	781	924	1,430	1,918	1,904	2,178
Montana.....	493	505	512	513	536	467	505	578
Nebraska.....	484	503	639	837	707	948	531	644
Nevada.....	206	180	151	150	178	230	233	371
New Hampshire.....	285	338	355	344	358	351	290	374
New Jersey.....	4,892	5,630	6,434	6,814	7,127	5,801	6,770	6,756
New Mexico.....	323	376	396	546	596	639	527	985
New York.....	4,416	4,456	4,720	5,010	8,442	9,058	9,939	11,401
North Carolina.....	3,688	4,211	4,513	4,381	4,712	4,714	4,843	4,403
North Dakota.....	953	860	564	563	587	598	610	654
Ohio.....	4,765	4,740	4,882	7,228	7,820	7,601	8,229	9,020
Oklahoma.....	1,467	1,458	1,507	1,810	2,253	2,270	1,939	2,028
Oregon.....	831	714	840	806	907	775	890	873
Pennsylvania.....	3,556	3,607	3,759	5,205	5,719	4,777	4,867	5,129
Rhode Island.....	305	285	394	402	500	357	437	421
South Carolina.....	1,043	1,147	1,394	1,787	1,844	1,634	1,544	1,566
South Dakota.....	336	422	357	355	451	396	401	450
Tennessee.....	1,064	1,069	1,119	1,235	1,222	1,252	1,252	1,646
Texas.....	1,720	1,856	1,847	1,927	3,329	3,347	3,451	3,802
Utah.....	483	469	583	589	521	522	577	609
Vermont.....	205	266	309	269	400	369	339	369
Virginia.....	1,805	2,116	2,183	2,221	2,335	2,401	2,355	2,427
Washington.....	1,740	1,740	2,281	2,287	2,406	2,512	2,654	2,549
West Virginia.....	769	868	884	887	1,100	955	1,144	1,207
Wisconsin.....	1,303	1,228	1,272	1,297	1,180	1,148	1,757	1,653
Wyoming.....	689	788	847	798	861	867	874	877
United States								
Total.....	75,717	81,247	87,625	93,407	105,786	101,747	106,277	115,479

Automobile Instalment Financing

((Figures from National Association of Sales Finance Companies))

No.	Average Note Purchased	UNITED STATES					CANADA	
		1929	Passenger Cars 1934	1935	Commercial Cars 1934	1935	Pass. Cars 1935	Com. Cars 1935
1	New cars.....	\$595*	\$519	\$532	\$859	\$697	\$701	\$702
2	Used cars.....	296*	216	238	386	333	276	242
3	All cars.....	....	327	355	629	521	396	450
Average Loss Per Repossessed Car								
4	New cars.....	....	\$65	\$73	\$53	\$46	....	....
5	Used cars.....	....	44	93	70	40	\$22	\$17
6	All cars.....	63*	49	75	61	46	....	....
Percentage of Repossessions								
		%	%	%	%	%	%	%
9	New cars total.....	3.0	2.3	1.8	7.3	10.4	1.1	4.6
11	Used cars total.....	5.6	6.8	7.8	13.3	16.0	4.3	6.6
12	All cars.....	....	....	5.8	....	12.7	3.9	6.3
13	Skips Per 1,000 Transactions.....	5.2	2.1	2.4	3.3	....	3.5 Inc.	Com.
Instalment Paper Ratios								
		%	%	%	%	%	%	%
14	Over 12 months, new.....	....	32.6	64.3	59.9	51.0	51.0	73.7
15	Over 12 months, used.....	....	12.2	25.2	31.5	20.1	21.7	47.4
16	Over 12 months, total.....	14.9	24.3	49.1	50.4	39.0	37.2	66.6
17	Under 33 1/3% down payment, new.....	....	10.7	23.4	38.4	34.6	7.5	71.1
18	Under 40% down payment, used.....	....	19.0	48.9	28.8	34.7	6.7	47.4
19	Under 33 1/3% / 40% down payment, total.....	8.0	14.2	29.8	35.4	34.6	7.1	63.1
20	New cars % of total.....	54.0	36.4	41.6	51.0	53.4	28.1	45.2
21	New car paper % of total.....	70.0	59.2	62.3	69.9	71.3	49.9	70.5
Recourse on Used Car Paper								
		%	%	%	%	%	%	%
22	Companies taking all with recourse.....	38.0	33.3	24.1	54.6	50.1	28.6	33.3
23	Companies taking part with recourse.....	56.2	52.8	61.1	36.4	35.0	14.3	33.3
24	Companies taking all or part recourse.....	94.1	86.1	85.2	91.0	85.0	42.9	66.6
Per Cent Sold on Instalments								
		%	%	%	%	%	%	%
25	New cars.....	62.6	54.6	58.2	52.6	55.9	46.0	54.2
26	Used cars.....	65.1	58.1	62.9	55.7	58.0	60.4	67.1
27	Total.....	64.0	56.8	61.2	54.0	57.0	55.5	60.8
Per Cent Trade-Ins								
		%	%	%	%	%	%	%
28	On sales of new cars.....	72.5	77.7	86.6	55.8	69.1	87.3	65.2
29	On sales of used cars.....	45.5	47.8	55.6	40.5	47.3	55.2	44.5
30	All trade-ins % of new cars sold.....	127.1	159.6	117.9	91.3	118.1	193.9	112.1
31	Used cars sold % of new cars sold.....	128.6	171.2	164.1	87.6	103.8	194.4	108.6
32	Used cars junked % of trade-ins.....	9.2	7.1	8.7	10.4	11.4	4.3	8.4

* Includes some commercial vehicles.

NOTE: Items 25 to 32, Automobile dealer data obtained through courtesy of National Automobile Dealers' Association and Dominion Automobile Dealers' Association by questionnaire submitted to its members.

41,200 Car Dealers in United States

(Figures from Chillon Company, as of May 1, 1936)

	Total Car and Truck Dealers	Total Pass- enger Car Dealers	Car Dealer Service Stations	Independent Repair Shops	Total Repair Shops	Total Retail Outlets (Duplication Eliminated)	No. of Wholesalers	Total Truck Fleets*
Alabama.....	339	333	305	504	809	884	55	176
Arizona.....	124	123	109	206	315	337	25	85
Arkansas.....	398	391	353	535	888	905	52	126
California.....	1,918	1,832	1,606	5,794	7,400	8,186	516	1,843
Colorado.....	468	454	422	622	1,044	1,086	66	246
Connecticut.....	611	587	541	755	1,296	1,419	106	603
Delaware.....	68	64	65	103	168	183	10	66
Dist. of Col.....	108	103	93	112	205	208	27	212
Florida.....	479	463	384	874	1,258	1,349	112	329
Georgia.....	569	559	503	855	1,358	1,398	82	301
Idaho.....	283	277	239	258	497	528	30	38
Illinois.....	2,565	2,488	2,246	3,632	5,878	6,284	343	2,492
Indiana.....	1,351	1,309	1,170	1,854	3,024	3,180	190	816
Iowa.....	1,709	1,669	1,408	1,718	3,126	3,419	136	352
Kansas.....	1,357	1,280	1,029	1,440	2,469	2,608	123	235
Kentucky.....	642	625	561	656	1,217	1,318	72	262
Louisiana.....	332	322	315	529	844	882	61	292
Maine.....	370	363	327	605	932	963	45	106
Maryland.....	447	431	409	529	938	995	63	487
Massachusetts.....	1,101	1,062	944	1,643	2,587	2,935	228	1,422
Michigan.....	1,748	1,714	1,609	2,362	3,971	4,215	209	1,457
Minnesota.....	1,589	1,568	1,432	1,725	3,157	3,366	113	482
Mississippi.....	341	332	320	358	678	719	40	71
Missouri.....	1,090	1,056	1,036	1,999	3,035	3,202	176	784
Montana.....	362	346	341	412	753	779	34	72
Nebraska.....	1,158	1,105	967	1,255	2,222	2,463	85	229
Nevada.....	111	110	100	92	192	214	8	26
New Hampshire.....	259	249	243	400	643	649	27	62
New Jersey.....	1,011	949	944	2,114	3,058	3,309	178	1,277
New Mexico.....	138	137	123	157	280	301	22	25
New York.....	2,911	2,765	2,609	5,875	8,484	9,240	618	3,241
N. Carolina.....	639	619	609	779	1,388	1,451	93	271
N. Dakota.....	596	575	512	492	1,004	1,097	31	33
Ohio.....	2,323	2,246	2,120	3,232	5,352	5,840	395	1,617
Oklahoma.....	740	700	666	888	1,554	1,723	108	280
Oregon.....	410	398	374	927	1,301	1,439	82	215
Pennsylvania.....	3,172	3,032	2,989	4,639	7,628	8,225	426	2,419
Rhode Island.....	176	170	169	352	521	566	32	272
S. Carolina.....	305	300	285	404	689	699	44	133
S. Dakota.....	539	512	468	552	1,020	1,098	26	39
Tennessee.....	417	403	375	618	993	1,080	75	332
Texas.....	1,782	1,730	1,699	2,866	4,565	4,597	286	720
Utah.....	180	173	174	278	452	481	32	129
Vermont.....	197	190	183	357	540	575	20	44
Virginia.....	649	625	608	955	1,563	1,617	70	305
Washington.....	637	617	595	1,599	2,194	2,335	139	432
West Virginia.....	594	572	464	646	1,110	1,207	69	284
Wisconsin.....	1,691	1,651	1,623	1,587	3,210	3,397	140	687
Wyoming.....	197	190	187	172	359	379	12	45
Total.....	41,201	39,769	36,853	61,316	98,169	105,330	5,932	26,472

*Number of fleet owners with 5 or more trucks.

City Automobile Registration, Street

One Passenger Car for Every Six Persons
in Cities Above 100,000 Population

(Please credit The Reuben H. Donnelley Corporation)

Cities Above 100,000 Population	Pass. Cars ¹	Trucks ¹	Popula- tion ²	Pop. Per Car	Area Sq. Miles ³	Paved Street ³ Mileage	Unpaved Street ³ Mileage	Total Street ³ Mileage
Akron, Ohio.....	59,990	5,773	255,000	4.3	54.0	333.0	412.0	745.0
Albany, N. Y.....	24,130	5,611	132,700	5.5	19.6	145.0	70.0	215.0
Atlanta, Ga.....	60,696	9,537	270,366	4.4	34.4	435.0	170.0	605.0
Baltimore, Md.....	104,035	17,572	848,196	8.2	78.7	862.5	110.0	972.5
Birmingham, Ala.....	35,071	5,326	260,000	7.4	50.3	776.0	550.0	1,326.0
Boston, Mass.....	80,088	19,513	820,000	10.2	47.0	670.0	30.0	700.0
Bridgeport, Conn.....	26,299	4,447	148,000	5.6	14.6	142.8	66.5	209.3
Buffalo, N. Y.....	125,433	13,408	600,000	4.8	42.7	624.5	70.3	694.8
Cambridge, Mass.....	13,268	2,974	118,075	8.9	6.3	114.4	14.0	128.4
Camden, N. J.....	26,277	3,474	120,000	4.6	8.7	168.0	82.0	250.0
Canton, Ohio.....	26,685	3,032	105,000	3.9	13.7	130.0	195.0	325.0
Chattanooga, Tenn.....	17,865	2,443	125,000	7.0	28.0	262.0	650.0	912.0
Chicago, Ill.....	409,517	54,537	3,575,700	8.7	212.8	3,153.4	522.8	3,676.2
Cincinnati, O.....	107,023	13,398	467,000	4.4	71.9	755.0	38.0	793.0
Cleveland, O.....	233,307	22,679	929,226	4.0	73.4	1,009.0	145.0	1,154.0
Columbus, O.....	74,294	10,755	300,000	4.0	38.4	501.8	200.0	701.8
Dallas, Tex.....	64,954	11,207	318,000	4.9	40.8	320.0	300.0	620.0
Dayton, O.....	55,818	5,319	205,000	3.7	23.3	204.6	222.8	427.4
Denver, Col.....	73,537	8,655	338,000	4.6	58.8	175.0	855.0	1,030.0
Des Moines, Ia.....	35,501	4,674	152,000	4.3	53.0	318.0	326.0	644.0
Detroit, Mich.....	382,559	33,858	1,650,000	4.3	137.9	1,789.0	816.0	2,605.0
Duluth, Minn.....	18,414	2,667	101,400	5.5	62.3	165.6	351.0	516.6
Elizabeth, N. J.....	26,091	2,881	120,000	4.6	10.5	117.6	15.4	133.0
El Paso, Tex.....	15,549	2,515	104,000	6.7	13.5	125.0	125.0	250.0
Erie, Pa.....	23,278	2,889	116,000	5.0	18.2	173.0	187.0	360.0
Evansville, Ind.....	20,799	3,275	106,000	5.1	9.5	140.0	49.0	189.0
Fall River, Mass.....	11,146	2,012	116,353	10.4	33.9	106.2	139.0	245.2
Flint, Mich.....	38,025	2,978	162,000	4.3	29.4	193.0	336.0	529.0
Fort Wayne, Ind.....	29,601	4,042	121,000	4.2	16.5	260.0	100.0	360.0
Fort Worth, Tex.....	36,222	5,549	175,000	4.8	40.6	223.1	376.9	600.0
Gary, Ind.....	17,787	2,033	105,000	5.9	40.3	225.0	65.0	290.0
Grand Rapids, Mich.....	42,018	5,152	176,000	4.2	23.4	307.0	97.0	404.0
Hartford, Conn.....	40,940	6,581	177,740	4.3	17.8	175.0	22.0	197.0
Houston, Tex.....	68,463	11,625	345,000	5.0	71.6	800.7	201.2	1,001.9
Indianapolis, Ind.....	90,293	14,724	380,000	4.2	52.4	544.0	312.0	856.0
Jacksonville, Fla.....	27,122	5,217	155,000	5.7	29.9	337.0	377.0	714.0
Jersey City, N. J.....	31,673	5,377	321,554	10.1	19.2	164.9	18.6	183.5
Kansas City, Kas.....	25,910	3,779	130,000	5.1	20.2	220.6	108.1	328.7
Kansas City, Mo.....	78,317	11,030	400,000	5.1	58.4	757.7	150.0	907.7
Knoxville, Tenn.....	18,637	2,631	120,000	6.5	26.4	275.0	175.0	450.0
Long Beach, Cal.....	47,827	3,970	142,032	2.9	29.7	195.3	239.7	435.0
Los Angeles, Cal.....	405,743	44,901	1,301,474	3.2	450.8	2,004.0	2,924.0	4,928.0
Louisville, Ky.....	47,747	7,049	373,240	7.8	40.0	307.0	290.0	597.0
Lowell, Mass.....	11,130	2,061	100,000	9.0	14.1	106.1	121.2	227.3
Lynn, Mass.....	19,171	2,537	102,000	5.3	10.4	90.0	60.0	150.0
Memphis, Tenn.....	36,077	4,852	267,188	7.4	46.9	640.0*	21.0	661.0
Miami, Fla.....	46,385	5,900	130,000	2.8	30.0	500.0	200.0	700.0
Milwaukee, Wis.....	121,568	14,887	600,000	5.0	43.3	631.9	183.3	815.2†
Minneapolis, Minn.....	108,291	12,671	480,000	4.4	53.8	227.8	685.4	913.2

Street Mileage, Population and Area, 1935

108 City-Owned Motor Vehicles per Mile of Street,
168 per Mile of Paved Street

when reproducing motor vehicle registrations)

Cities Above 100,000 Population	Pass. Cars ¹	Trucks ¹	Popula- tion ²	Pop. Per Car	Area Sq. Miles ³	Paved Street ³ Mileage	Unpaved Street ³ Mileage	Total Street ³ Mileage
Nashville, Tenn.	28,238	4,010	156,000	5.6	26.4	393.2	8.8	402.0
Newark, N. J.	77,251	19,309	457,000	5.9	23.6	373.3	10.0	383.3
New Bedford, Mass.	15,401	2,681	110,022	7.2	19.4	195.4	19.2	214.6
New Haven, Conn.	35,576	7,207	165,000	4.7	17.8	152.0	62.0	214.0
New Orleans, La.	53,329	9,571	470,000	8.8	365.7	323.0	770.0	1,093.0
New York, N. Y.	630,107	109,251	7,624,000	12.1	309.9	4,100.0	1,400.0	5,500.0
Norfolk, Va.	16,758	2,926	127,000	7.6	38.0	220.0	200.0	420.0
Oakland, Cal.	77,524	8,054	294,000	3.8	49.4	511.0	204.0	715.0
Oklahoma City, Okla.	47,054	7,272	210,000	4.4	25.0	304.0	450.0	754.0
Omaha, Neb.	48,763	6,654	220,000	4.5	39.3	446.0	263.0	709.0
Paterson, N. J.	27,573	4,667	139,628	5.1	8.4	145.0	23.5	168.5
Peoria, Ill.	23,974	3,329	112,000	4.7	12.8	137.5	87.2	224.7
Philadelphia, Pa.	215,704	36,914	2,100,000	9.8	130.0	1,994.0	105.0	2,099.0
Pittsburgh, Pa.	126,046	18,767	669,230	5.3	54.3	850.0	500.0	1,350.0
Portland, Ore.	77,936	10,132	311,500	4.0	63.5	842.0	435.0	1,277.0
Providence, R. I.	62,004	9,424	253,000	4.1	17.9	329.1	4.8	333.9
Reading, Pa.	20,064	3,146	112,113	5.6	9.0	53.0	80.0	133.0
Richmond, Va.	30,153	6,577	190,000	6.3	22.0	331.0	50.0	381.0
Rochester, N. Y.	79,210	8,023	333,000	4.2	36.0	423.0	103.0	526.0
Salt Lake City, Utah.	32,678	5,367	140,284	4.4	52.8	120.0	415.0	535.0
San Antonio, Tex.	54,046	10,076	253,000	4.7	36.0	300.0	450.0	750.0
San Diego, Cal.	48,675	4,622	160,000	3.3	94.7	551.0	102.0	653.0
San Francisco, Cal.	127,820	18,066	717,838	5.6	44.2	677.0	193.0	870.0
Scranton, Pa.	24,859	4,844	150,000	6.1	19.5	105.8	47.2	153.0
Seattle, Wash.	90,289	10,599	355,000	3.9	68.0	769.0	186.0	955.0
Somerville, Mass.	10,147	2,606	103,908	10.3	4.2	25.9	74.4	100.3
South Bend, Ind.	24,480	3,301	110,000	4.5	19.8	205.3	110.9	316.2
Spokane, Wash.	27,785	4,375	120,000	4.4	41.5	123.2	503.4	626.6
Springfield, Mass.	27,031	3,727	149,750	5.6	33.1	218.5	150.0	368.5
St. Louis, Mo.	146,555	24,477	830,500	5.7	61.0	764.5	122.1	886.6
St. Paul, Minn.	61,546	7,965	288,000	4.9	52.1	251.0	419.0	670.0
Syracuse, N. Y.	43,734	5,731	220,000	5.0	24.9	234.6	158.6	393.2
Tacoma, Wash.	24,860	3,860	106,700	4.3	46.5	187.0	530.0	717.0
Tampa, Fla.	22,278	4,141	101,161	4.6	19.0	282.5	178.5	461.0
Toledo, O.	75,205	7,244	290,718	3.9	34.9	468.1	131.0	599.1
Trenton, N. J.	24,721	4,136	124,000	5.0	8.0	105.0	55.0	160.0
Tulsa, Oklahoma.	34,701	6,104	150,000	4.3	21.3	262.3	157.5	419.8
Utica, N. Y.	17,410	2,560	105,000	6.0	16.0	142.0	33.0	175.0
Washington, D. C.	145,187	17,044	500,000	3.5	60.0	686.0	112.3	798.3
Wichita, Kans.	27,125	4,446	111,000	4.1	21.0	232.0	150.0	382.0
Wilmington, Del.	17,778	3,018	120,000	6.8	15.8	115.0	43.0	158.0
Worcester, Mass.	26,301	3,980	190,000	7.3	37.0	138.0	350.0	488.0
Yonkers, N. Y.	28,171	2,661	157,455	5.6	21.0	224.0	16.0	240.0
Youngstown, O.	30,089	3,407	170,000	5.7	33.5	265.0	155.0	420.0
Total, 93 cities ...	6,246,707	900,248	38,303,423	6.1	3,191	42,477	23,393	65,870

*—Includes gravel surface. †—Intersections counted only once.

¹—Total passenger car, and truck, registrations furnished by The Reuben H. Donnelley Corporation, as of July 1, 1935.

²—Figures furnished by the city engineers of all cities surveyed by the Automobile Manufacturers Association, as of January 1, 1936.

37,236,000 Motor 71% of Total in United States

(Figures as of December 31, 1935, from Automotive-Aeronautics Trade Association)

Country	Passenger Cars	Buses	Trucks	Diesel Powered	Total Registrations	Total Population	Population Per Vehicle
Aegean Islands (Italian)†...	221	46	115	.....	382	131,255	344
Afghanistan.....	550	1	2,900	.....	3,450	6,330,500	1,835
Alaska.....	2,295	30	1,209	.....	3,534	59,278	17
Albania.....	312	116	341	.....	769	1,003,068	1,304
Algeria.....	52,000	1,950	6,300	230	60,480	6,553,451	108
Anglo-Egyptian Sudan.....	1,462	2	1,744	.....	3,208	5,728,551	1,786
Antigua.....	264	12	44	.....	320	29,767	93
Arabia.....	1,703	70	1,397	.....	3,170	7,000,000	2,208
Argentina.....	182,000	7,850	57,600	330	247,780	12,164,000	49
Australia†.....	473,992	.....	157,862	.....	631,854	6,706,000	11
Austria.....	19,263	2,244	14,950	15	36,472	6,762,687	185
Azores.....	712	83	44	.....	839	253,596	302
Bahamas.....	885	1	150	.....	1,035	58,828	58
Bahrein Islands‡.....	108	.....	25	.....	133	120,000	902
Barbados†.....	1,800	140	375	.....	2,315	173,674	75
Belgian Congo†.....	2,339	.....	2,188	.....	4,527	9,584,936	2,117
Belgium.....	103,750	.....	58,700	.....	162,450	8,275,552	51
Bermuda.....	1	1	62	1	65	27,789	428
Bolivia.....	1,000	40	3,000	6	4,046	3,000,000	742
Brazil.....	88,000	3,600	48,250	150	140,000	46,428,607	332
British East Africa:							
Kenya†.....	8,600	.....	1,850	.....	10,450	3,040,940	291
Tanganyika.....	2,113	1	1,626	14	3,753	5,063,660	1,349
Uganda.....	1,712	1	2,182	6	3,900	3,552,418	911
Zanzibar.....	317	.....	247	.....	564	235,428	417
British Guiana†.....	1,200	.....	375	.....	1,575	310,933	197
British Honduras†.....	140	.....	74	.....	214	51,347	240
British Malaya.....	27,504	1,999	7,045	70	36,618	4,414,000	121
British Somaliland.....	40	.....	101	.....	141	344,700	2,445
British South Africa:							
Basutoland.....	411	1	137	.....	548	650,000	1,186
Bechuanaland.....	279	1	82	.....	361	154,983	429
N. Rhodesia.....	925	1	598	.....	1,523	1,345,075	883
S. Rhodesia.....	11,100	1	2,420	.....	13,520	1,109,012	82
Swaziland.....	343	1	79	.....	422	125,055	296
Brit. S. W. Africa Protect.....	2,277	13	793	3	3,086	240,520	78
British West Africa:							
Gambia.....	139	.....	176	.....	315	199,520	633
Gold Coast.....	1,818	10	4,975	5	6,808	2,869,750	422
Nigeria.....	2,984	1	2,801	.....	5,785	19,130,859	3,307
Sierra Leone†.....	300	.....	60	.....	360	1,768,480	4,912
Bulgaria.....	1,944	480	562	15	3,001	6,090,215	2,029
Canada.....	989,963	1,892	171,001	92	1,162,948	10,835,000	9
Canary Islands.....	4,784	832	2,120	21	7,757	564,873	73
Cayman Islands‡.....	41	.....	7	.....	48	6,209	129
Ceylon.....	17,707	2,438	3,489	149	23,783	5,463,000	230
Chile.....	24,870	1,228	9,222	.....	35,320	4,432,553	126
China.....	27,465	8,060	11,462	455	47,442	423,204,841	8,920
Chosen.....	2,290	2,482	2,957	.....	7,729	20,791,321	2,690
Colombia.....	10,613	1,411	4,551	26	16,601	8,893,000	536
Cook Islands.....	46	1	46	.....	93	15,307	165
Costa Rica.....	1,691	213	480	1	2,385	552,000	231
Cuba.....	19,560	2,073	10,499	.....	32,132	3,988,160	124
Cyprus.....	2,026	.....	.....	.....	2,026	347,959	172
Czechoslovakia.....	91,797	3,943	29,616	*	125,356	15,067,000	120
Danzig.....	2,002	42	747	30	2,821	407,517	145
Denmark.....	92,300	1,600	37,700	11	131,611	3,656,000	28
Dominica.....	55	.....	23	.....	78	45,239	580
Dominican Republic.....	1,736	77	683	1	2,497	1,300,000	521
Ecuador.....	1,655	418	870	4	2,947	2,500,000	848

†Figures from "The American Automobile" 1936 Motor Census. ‡Included with Trucks.
*Included with Passenger Cars. †Included with Gasoline Vehicles. ‡Latest available, January 1, 1934. †Jan. 1, 1935.

Motor Vehicles in World

Increase 6% Over Last Year

Division, Department of Commerce, and from The American Automobile)

Country	Passenger Cars	Buses	Trucks	Diesel Powered	Total Registrations	Total Population	Population Per Vehicle
Egypt.....	24,431	1,328	3,287	.....	29,046	15,230,000	524
Eritrea†.....	202	.....	93	.....	295	621,776	2,108
Estonia.....	2,127	215	1,525	9	3,876	1,127,885	291
Ethiopia.....	300	.....	300	10	610	10,000,000	16,393
Faroe Islands.....	55	.....	54	.....	109	21,352	196
Fiji Islands.....	981	1	553	.....	1,534	189,398	123
Finland.....	19,535	753	11,651	90	32,029	3,738,532	117
France.....	1,565,000	38,000	450,000	12,200	2,065,200	41,940,000	20
French Equa. Africa†.....	527	.....	738	.....	1,265	3,192,282	2,524
French Guiana.....	175	11	30	.....	216	22,169	103
French Indo-China.....	11,500	2,200	1,100	.....	14,800	21,599,582	1,459
French Somaliland†.....	165	5	40	.....	210	68,965	328
French West Africa:							
Cameroon.....	577	.....	1,037	.....	1,614	2,222,408	1,377
Ivory Coast†.....	440	.....	822	.....	1,262	3,878,232	3,073
Senegal†.....	1,125	.....	1,500	.....	2,625	1,638,255	3,074
Togo†.....	150	.....	200	.....	350	730,027	2,086
Germany.....	850,000	12,000	245,000	15,000	1,122,000	65,804,000	59
Gibraltar.....	905	53	135	.....	1,093	17,405	16
Greece.....	7,300	1,960	4,930	90	14,280	6,705,000	470
Grenada.....	382	6	125	.....	513	66,302	129
Guadeloupe.....	1,647	57	352	.....	2,056	267,407	130
Guam.....	197	6	147	.....	350	18,509	53
Guatemala.....	1,732	303	747	.....	2,782	2,200,000	791
Haiti.....	2,173	231	275	.....	2,679	2,600,000	971
Hawaiian Islands.....	41,300	406	9,543	.....	51,249	368,336	7
Honduras.....	1,034	6	499	.....	1,539	920,000	598
Hong Kong.....	3,204	132	903	70	4,309	849,751	197
Hungary.....	11,807	432	3,725	118	16,082	8,894,920	553
Iceland†.....	600	.....	950	.....	1,550	108,694	70
India and Burma.....	72,646	26,830	5,296	80	104,852	363,100,000	3,463
India (Netherland).....	41,222	6,639	9,602	200	57,663	60,731,026	1,053
Iran.....	1,671	184	6,200	30	8,085	9,000,000	1,113
Iraq.....	3,665	1	1,372	7	5,044	2,857,000	566
Irish Free State.....	44,000	640	9,400	225	54,265	3,013,000	56
Italy.....	281,091	9,502	105,134	*	395,727	42,625,000	108
Italian Somaliland†.....	123	5	403	.....	531	1,010,815	1,904
Jamaica.....	7,881	143	2,096	12	10,132	1,050,667	104
Japan.....	59,716	26,672	46,861	10	133,259	64,450,005	484
Latvia.....	2,231	259	1,668	.....	4,158	1,339,350	466
Liberia.....	46	.....	46	.....	92	1,500,000	16,304
Libya†.....	475	.....	550	.....	1,025	553,000	540
Lithuania.....	1,399	252	443	69	2,163	2,476,154	1,145
Luxemburg.....	6,880	180	3,977	*	11,037	303,000	27
Madeira Islands.....	685	180	173	.....	1,038	210,226	203
Malta.....	2,700	579	719	.....	3,998	241,621	60
Manchukuo†.....	3,860	1,485	2,410	.....	7,755	29,606,117	3,825
Martinique.....	2,147	75	469	.....	2,691	234,695	87
Mauritius.....	1,985	122	330	8	2,446	405,549	166
Mexico.....	63,565	3,900	30,040	12	97,517	17,467,400	179
Monaco†.....	1,327	100	180	.....	1,607	22,153	14
Montserrat.....	50	17	.....	.....	67	13,062	195
Morocco, French.....	21,000	1,200	5,195	5	27,400	5,063,271	185
Morocco, Intern'l Zone.....	611	49	165	.....	825	60,000	73
Morocco, Spanish†.....	2,300	420	1,600	.....	4,320	744,000	172
Netherlands.....	86,900	3,700	45,300	675	136,575	8,400,000	62
Netherland West Indies.....	955	316	349	.....	1,621	76,299	47
New Caledonia†.....	100	.....	250	.....	350	57,165	163
New Hebrides†.....	26	.....	45	.....	71	54,531	77

†Figures from "The American Automobile" 1936 World Motor Census. †Included with Trucks.

*Included with Passenger Cars. *Included with Gasoline Vehicles. ‡ Latest available, January 1, 1934. †Jan. 1, 1935.

World Motor Vehicles 37,236,000

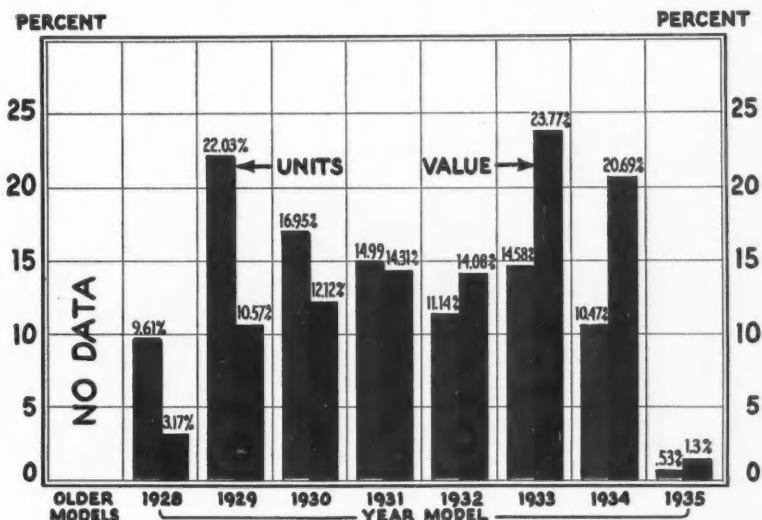
(Figures as of December 31, 1935 from Automotive and Aeronautics Trade Division, Department of Commerce, and from The American Automobile)

Country	Passenger Cars	Buses	Trucks	Diesel Powered	Total Registrations	Total Population	Population Per Vehicle
New Zealand.....	149,112	559	41,205	19	190,895	1,557,043	8
Newfoundland.....	3,061	12	689	.....	3,762	285,863	76
Nicaragua.....	533	1	177	.....	741	800,000	1,080
Norway.....	36,190	2,510	24,410	.....	63,110	2,871,000	45
Nyasaland.....	774	8	531	2	1,315	1,603,454	1,219
Palestine†.....	5,754	1,037	3,700	.....	10,491	1,035,821	99
Panama and Canal Zone.....	8,924	540	586	.....	10,050	506,926	51
Papua†.....	255	1	83	.....	339	276,125	815
Paraguay.....	723	58	2,325	.....	3,106	900,000	290
Peru.....	9,500	360	4,460	40	14,360	6,237,000	434
Philippine Islands†.....	27,381	.....	16,547	.....	43,928	13,636,000	310
Poland.....	18,160	1,499	6,075	.....	25,734	33,024,000	1,283
Portugal.....	28,100	1,700	8,600	60	38,460	7,177,000	187
Portuguese East Africa.....	2,620	93	1,399	1	4,113	4,028,746	980
Portuguese West Africa†.....	1,200	.....	1,800	.....	3,000	3,098,281	1,033
Puerto Rico.....	12,912	465	3,008	1	16,386	1,543,913	94
Reunion†.....	800	10	250	.....	1,060	197,933	187
Rumania.....	17,000	3,000	3,400	.....	23,400	18,791,637	803
St. Kitts-Nevis§.....	213	12	37	.....	262	36,888	141
St. Lucia§.....	137	14	20	.....	171	62,000	363
St. Pierre and Miquelon†.....	50	.....	75	.....	125	3,584	29
St. Vincent§.....	153	21	26	.....	200	47,961	240
Salvador, El.....	1,950	218	331	12	2,511	1,459,578	581
Samoa, American.....	11	21	21	.....	53	10,055	190
Samoa, Western†.....	150	.....	100	.....	250	49,147	197
Seychelles.....	69	1	8	.....	77	28,731	373
Siam.....	4,739	2,100	1,622	5	8,466	12,743,000	1,505
Society Islands.....	300	20	100	.....	420	39,920	95
Solomon Is. (British).....	2	.....	41	.....	43	94,066	2,188
Soviet Russia (U.S.S.R.)†.....	44,100	.....	201,500	.....	245,600	165,700,000	675
Spain.....	128,902	14,703	44,393	6,211	194,209	28,719,000	148
Spitzbergen†.....	.....	.....	1	.....	1	1,300	1,300
Surinam.....	138	12	40	.....	190	161,008	847
Sweden.....	109,096	3,914	44,893	1,180	159,093	6,233,090	39
Switzerland.....	70,200	1,220	17,600	1,070	90,090	4,145,000	46
Syria†.....	5,930	348	1,488	.....	7,766	2,831,622	365
Taiwan (Formosa).....	1,300	1,278	972	.....	3,550	5,060,507	1,425
Tonga†.....	80	.....	47	.....	127	28,839	227
Transjordan†.....	268	34	161	.....	463	300,000	648
Trinidad and Tobago.....	4,000	500	2,040	.....	6,540	387,425	59
Tunisia.....	13,768	300	2,120	80	16,268	2,410,692	148
Turkey.....	3,500	700	3,700	.....	7,900	15,200,000	1,924
Turks and Caicos Islands§.....	17	.....	3	.....	20	5,300	265
Union of South Africa.....	212,767	1,184	27,694	60	241,705	8,488,000	35
United Kingdom:							
Channel Islands.....	6,900**	.....	3,188**	.....	10,088	46,755,000	23
England.....	1,335,690	34,633	370,259	8,344	1,748,926		
Isle of Man.....	2,698	123	681	.....	3,502		
Northern Ireland.....	28,848	751	7,572	146	37,317		
Scotland.....	117,443	3,658	36,502	2,016	159,619		
Wales.....	62,576	2,202	18,612	609	83,999		
Uruguay.....	36,041	1,032	11,254	33	48,360	1,993,000	41
Venezuela.....	11,000	800	5,000	.....	16,800	3,324,160	198
Virgin Islands†.....	300	.....	100	.....	400	22,012	55
Yugoslavia.....	7,150	725	2,525	.....	10,400	14,730,000	1,416
Total Outside United States	8,081,729	269,355	2,613,407	50,444	11,014,935	1,904,097,332	172
United States.....	22,455,638	115,479	3,649,935	.....	26,221,052	127,521,000	4.85
WORLD TOTAL.....	30,537,367	384,834	6,263,342	50,444	37,235,987	2,031,618,000	54.5

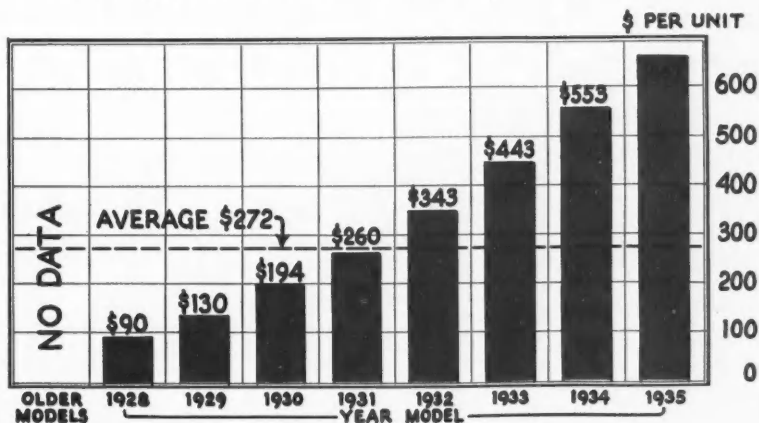
†Figures from "The American Automobile" 1936 World Motor Census. †Included with Trucks. ‡Included with Passenger Cars. *Included with Gasoline Vehicles. †Latest available, January 1, 1934. §Jan. 1, 1935. **Estimated segregation of cars and trucks.

Sales of 1929-Model Used Cars Largest in Number 1933-Model Sales Greatest in Dollar Volume

(Figures from National Automobile Dealers Association, Calendar year 1935)



Average Used Car Price \$272 in 1935



9,278,000 Miles o

(Compiled by Automotive-Aeronautics
Figures as of January 1, 1935.

Country	Area Sq. Miles	Road Mileage	Area to 1 Mile of Road	Auto- mobiles	Automobiles to 1 Mile of Road
AMERICA					
Alaska.....	590,884	1,701	347.4	2,919	1.7
Argentina.....	1,153,417	140,008	8.2	225,031	1.6
Bahamas.....	4,404	419	10.5	1,075	2.5
Barbadoes.....	166	480	0.3	2,172	4.5
Bermuda.....	19	101	0.2	64	0.6
Bolivia.....	613,899	2,790	220.0	3,850	1.3
Brazil.....	3,280,000	93,135	35.2	128,425	1.3
British Guiana.....	89,480	500	178.9	1,563	3.1
British Honduras.....	8,600	112	76.8	184	1.6
Canada.....	3,684,727	409,269	9.0	1,114,655	2.6
Chile.....	286,396	24,799	11.5	32,291	1.3
Colombia.....	497,300	14,637	33.9	14,850	1.0
Costa Rica.....	23,000	351	65.5	2,451	6.9
Cuba.....	44,164	2,506	17.6	27,624	11.0
Dominican Republic.....	19,332	1,083	17.9	2,456	2.2
Ecuador.....	174,000	2,428	71.7	2,501	1.0
French Guiana.....	34,740	200	173.7	221	1.1
Guadeloupe.....	688	596	1.2	3,150	5.3
Guatemala.....	42,364	3,497	12.1	2,888	0.8
Haiti.....	10,207	1,212	8.4	2,970	2.4
Honduras.....	46,250	564	82.0	1,437	2.5
Jamaica.....	4,450	6,837	0.7	9,127	1.3
Leeward Islands.....	715	627	1.1	685	1.0
Martinique.....	385	721	0.5	2,500	3.4
Mexico.....	767,258	56,923	13.5	90,260	1.5
Netherland West Indies.....	403	371	1.1	2,347	6.3
Newfoundland.....	42,734	3,593	11.3	3,257	0.9
Nicaragua.....	49,213	1,134	43.4	756	0.6
Panama and Canal Zone.....	32,388	1,046	30.9	9,597	9.1
Paraguay.....	176,000	3,728	46.2	2,800	0.7
Peru.....	524,800	12,054	43.5	14,180	1.1
Puerto Rico.....	3,435	2,286	1.6	15,341	6.8
Salvador, El.....	13,176	2,796	4.7	2,240	0.8
Trinidad and Tobago.....	1,976	2,370	0.8	5,829	2.5
United States.....	3,026,789	3,065,254	1.0	25,163,789	8.2
Uruguay.....	72,172	22,487	3.2	42,653	1.9
Venezuela.....	393,976	5,667	69.5	14,006	2.6
Virgin Islands.....	132	178	0.7	252	1.4
Windward Islands.....	516	1,169	0.4	791	0.6
Total America.....	15,714,555	3,889,623	4.0	26,953,187	6.9

EUROPE					
Aegean Islands.....	977	249	3.9	382	1.5
Albania.....	17,374	1,116	15.6	910	0.7
Austria.....	32,372	23,370	1.4	44,941	1.9
Azores.....	924	600	1.5	819	1.4
Belgium.....	11,754	18,936	0.6	198,098	10.5
Bulgaria.....	39,825	15,717	2.6	3,621	0.2
Cyprus.....	3,584	2,906	1.3	1,872	0.6
Czechoslovakia.....	54,196	43,169	1.2	116,550	2.7
Danzig.....	830	1,247	0.7	2,765	2.2
Denmark.....	16,574	32,211	0.5	126,882	3.9
Estonia.....	18,376	13,489	1.4	3,524	0.3
Finland.....	132,597	39,423	3.4	31,335	0.8
France.....	212,736	393,761	0.5	1,914,561	4.9
Germany.....	180,989	216,674	0.8	968,000	4.4
Gibraltar.....	2	16	0.1	993	62.6
Greece.....	50,270	7,320	6.9	14,100	1.9
Hungary.....	35,911	18,068	2.0	14,349	0.8
Iceland.....	39,709	2,112	18.8	1,699	0.8

s of Highways in the World

Navigation Division, Department of Commerce.
, 1935. Mileage of city streets is not included).

Country (Continued)	Area Sq. Miles	Road Mileage	Area to 1 Mile of Road	Auto- mobiles	Automobiles to 1 Mile of Road
Irish Free State.....	26,935	48,201	0.6	51,120	1.1
Italy.....	119,744	105,810	1.1	377,707	3.6
Latvia.....	25,402	20,967	1.2	3,866	0.2
Lithuania.....	21,490	27,496	0.8	2,084	0.1
Luxemburg.....	999	2,545	0.4	10,401	4.9
Malta and Gozo.....	122	584	0.2	4,093	7.0
Netherlands.....	13,213	15,969	0.9	145,500	9.1
Northern Ireland.....	5,237	12,997	0.4	34,511	2.7
Norway.....	125,617	24,295	5.2	58,543	2.4
Poland.....	149,937	140,980	1.1	25,712	0.2
Portugal.....	35,796	19,262	1.9	33,950	1.7
Rumania.....	113,887	84,951	1.3	23,600	0.3
Russia (Incl. Asiatic Russia)...	8,241,921	1,682,109	4.9	180,000	0.2
Spain.....	195,040	70,760	2.7	177,107	2.5
Sweden.....	173,143	86,395	2.0	149,800	1.7
Switzerland.....	15,944	10,180	1.6	87,920	8.6
United Kingdom.....	89,041	178,507	0.5	1,843,845	10.3
Yugoslavia.....	96,737	25,572	3.8	10,278	0.4
Total Europe.....	10,299,205	3,387,964	3.0	6,665,438	2.0

AFRICA

Algeria.....	847,528	41,036	20.6	57,190	1.4
Anglo-Egyptian Sudan.....	1,008,000	25,270	39.9	2,620	0.1
Angola (Port. W. Africa).....	484,800	37,928	12.7	3,140	0.1
Belgian Congo.....	920,849	30,541	30.1	4,828	0.1
British South Africa.....	437,950	15,828	27.6	13,397	0.9
British Southwest Africa.....	322,400	817	394.6	2,673	3.3
Canary Islands.....	3,021	1,445	2.0	7,645	5.3
Egypt.....	386,000	4,178	92.4	23,376	5.6
Eritrea.....	45,754	2,233	20.5	295	0.1
Ethiopia.....	347,490	2,730	127.7	383	0.1
French Equatorial Africa.....	915,057	14,262	64.2	1,731	0.1
French West Africa.....	1,854,714	27,301	68.8	5,491	0.2
Gambia and Protectorate.....	4,134	745	5.5	274	0.4
Gold Coast.....	80,000	5,140	15.6	6,224	1.2
Kenya Colony.....	225,100	7,560	29.8	8,781	1.2
Liberia.....	46,332	234	198.1	104	0.4
Libya.....	422,831	8,342	50.7	1,025	0.1
Madagascar.....	227,734	8,040	28.3	3,850	0.5
Madeira.....	314	126	2.5	925	7.3
Mauritius.....	720	838	0.9	2,278	2.7
Morocco (French).....	162,000	4,108	39.4	27,909	6.8
Morocco (Sp. and Int. Zone)...	9,105	1,393	6.5	5,260	3.8
Mozambique.....	297,734	18,000	16.5	3,876	0.2
Nigeria.....	372,674	19,338	19.3	4,598	0.2
Nyassaland.....	37,890	3,409	11.1	1,253	0.4
Reunion.....	970	655	1.0	1,060	1.6
Seychelles.....	156	153	1.0	86	0.6
Sierra Leone.....	31,000	847	36.6	335	0.4
Somaliland (British).....	68,000	1,000	68.0	123	0.1
Somaliland (French).....	5,790	25	231.6	210	8.4
Somaliland (Italian).....	190,000	6,200	30.6	531	0.1
South Africa (Union of).....	471,917	111,336	4.2	200,774	1.8
Spanish Guiana.....	10,036	180	55.7	.....	.....
Tanganyiki.....	373,500	19,075	19.6	3,293	0.2
Tunisia.....	48,300	7,432	6.5	14,380	1.9
Uganda.....	94,024	7,028	13.3	3,599	0.5
Zanzibar and Pemba.....	1,020	243	4.2	515	2.1
Total Africa.....	10,754,844	435,016	24.7	414,032	0.9

9,278,000 Miles of Highways in World

Country (Continued)	Area Sq. Miles	Road Mileage	Area to 1 Mile of Road	Auto- mobiles	Automobiles to 1 Mile of Road
ASIA					
Afghanistan.....	250,965	1,561	160.8	3,050	2.0
Arabia.....	1,000,000	1,055	947.9	2,638	2.5
British India.....	1,107,358	225,280	4.9	106,378	0.5
British Malaya.....	52,603	5,982	9.3	34,361	5.7
Ceylon.....	25,332	17,002	1.5	21,707	1.2
China (Includes Manchuria and Mongolia).....	4,300,000	51,056	84.2	48,762	1.0
Chosen (Korea).....	85,227	13,430	6.4	7,149	0.5
French Indo-China.....	284,900	20,968	13.5	13,982	0.7
Hong Kong.....	391	377	1.0	3,999	10.6
Iran (Persia).....	628,000	13,231	47.5	6,465	.5
Iraq.....	143,250	4,652	30.8	4,822	1.0
Japan.....	147,327	594,626	0.2	119,812	0.2
Macao.....	44	66	0.7	381	5.7
Netherland India.....	733,642	35,900	20.4	54,091	1.5
Palestine.....	8,800	1,710	5.2	8,012	4.1
Philippine Islands.....	114,400	9,672	11.8	42,376	4.3
Siam.....	200,149	1,951	10.3	8,307	4.2
Syria.....	74,000	6,553	11.3	9,517	1.5
Taiwan (Formosa).....	13,795	9,889	1.4	3,300	0.3
Trans-Jordan.....	20,000	611	32.7	452	0.7
Turkey.....	294,492	23,242	12.7	7,350	0.2
Total Asia.....	9,484,675	1,038,814	9.1	506,911	0.5
AUSTRALIA, NEW ZEALAND AND OCEANIA					
Australia.....	2,974,581	471,392	6.3	595,351	1.3
British North Borneo.....	31,106	243	128.0	250	1.0
British Pacific Islands.....	23,035	305	75.5	241	0.8
Fiji.....	7,083	562	12.6	1,255	2.2
French Oceania and New Caledonia.....	10,966	186	58.9	844	4.5
Guam.....	210	66	3.2	406	6.2
Hawaii.....	6,449	3,095	2.1	49,147	15.9
New Zealand.....	103,862	50,930	2.0	174,627	3.4
Samoa (American).....	76	30	2.5	60	2.0
Western Samoa.....	1,235	171	7.8	240	1.4
Total.....	3,158,603	526,980	5.9	822,421	1.8
World Total.....	49,411,882	9,278,397	5.3	35,361,989	3.8

Imports of Complete Automobiles or Chassis by the World's Producing Countries

(Figures from Automotive-Aeronautics Trade Division, Department of Commerce)

Producing Country	1934	1935	Producing Country	1934	1935
United States ¹	585	591	Italy.....	117	44 ³
Canada.....	2,905	4,111	Japan.....	1,846	1,944
			Poland ⁴	907	1,492
U. S. and Canada.....	3,490	4,702	Soviet Russia.....	21,732	22,125
Austria.....	665	844	Spain.....	449	271
Belgium.....	4,229	3,349	Sweden.....	7,500	10,315
Czechoslovakia.....	736	779	Switzerland.....	10,732	9,414
Denmark ²	1,630	1,929	United Kingdom.....	12,519	15,404
France.....	1,772	1,817			
Germany.....	5,559	7,490	Total³ (exc. U. S. and Canada).....	70,341	77,453
Hungary.....	855	1,728	Grand Total.....	73,831	82,155

¹—Including used vehicles.

²—In addition 15,844 units were imported as parts for assembly in 1934 and 9,894 in 1935, 6,297 were re-exported in 1934 and 7,021 in 1935.

³—First 9 months.

⁴—Metric tons.

⁵—Not including Poland.

Members of Automobile Manufacturers Association

Passenger Car Manufacturers

Trade Name	Member or Manufacturer	Address
Auburn	Auburn Automobile Company	Auburn, Ind.
Buick	Buick Motor Company	Flint, Mich.
Cadillac	Cadillac Motor Car Company	Detroit, Mich.
Chevrolet	Chevrolet Motor Company	Detroit, Mich.
Chrysler	Chrysler Sales Corporation	Detroit, Mich.
Cord	Auburn Automobile Company	Auburn, Ind.
De Soto	De Soto Motor Corporation	Detroit, Mich.
Dodge	Dodge Brothers Corporation	Detroit, Mich.
Duesenberg	Duesenberg, Inc.	Indianapolis, Ind.
Graham	Graham-Paige Motors Corporation	Detroit, Mich.
Hudson	Hudson Motor Car Company	Detroit, Mich.
Hupmobile	Hupp Motor Car Corporation	Detroit, Mich.
LaFayette	The Nash Motors Company	Kenosha, Wis.
LaSalle	Cadillac Motor Car Company	Detroit, Mich.
Nash	The Nash Motors Company	Kenosha, Wis.
Oldsmobile	Olds Motor Works	Lansing, Mich.
Packard	Packard Motor Car Company	Detroit, Mich.
Pierce-Arrow	The Pierce-Arrow Motor Corporation	Buffalo, N. Y.
Plymouth	Plymouth Motor Corporation	Detroit, Mich.
Pontiac	Pontiac Motor Company	Pontiac, Mich.
Reo	Reo Motor Car Company	Lansing, Mich.
Studebaker	The Studebaker Corporation	South Bend, Ind.
Terraplane	Hudson Motor Car Company	Detroit, Mich.
Willys	The Willys-Overland Company	Toledo, Ohio

Taxicab Manufacturers

Checker	Checker Cab Mfg. Corporation	Kalamazoo, Mich.
G. M. C.	General Motors Truck Corporation	Pontiac, Mich.

Ambulance and Funeral Vehicle Manufacturers

Auburn	Auburn Automobile Company	Auburn, Ind.
Cadillac	Cadillac Motor Car Company	Detroit, Mich.
Packard	Packard Motor Car Company	Detroit, Mich.
Studebaker	The Studebaker Corporation	South Bend, Ind.

Motor Fire Apparatus Manufacturers

Ahrens-Fox	The LeBlond-Schacht Truck Company	Cincinnati, Ohio
Corbitt	The Corbitt Company	Henderson, N. C.
Mack	Mack Brothers Motor Car Company	Long Island City, N. Y.
Walter	Walter Motor Truck Company	Ridgewood, N. Y.
White	The White Motor Company	Cleveland, Ohio

Members of Automobile Manufacturers Association

Motor Truck Manufacturers

Trade Name	Member or Manufacturer	Address
Autocar.....	The Autocar Company.....	Ardmore, Pa.
Chevrolet.....	Chevrolet Motor Company.....	Detroit, Mich.
Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Diamond T.....	Diamond T Motor Car Company.....	Chicago, Ill.
Dodge.....	Dodge Brothers Corporation.....	Detroit, Mich.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
G. M. C.....	General Motors Truck Corporation.....	Pontiac, Mich.
Indiana.....	The White Motor Company.....	Cleveland, Ohio
International.....	International Harvester Company.....	Chicago, Ill.
LaFrance-Republic.....	Sterling Motor Truck Company.....	Milwaukee, Wis.
Mack.....	Mack Brothers Motor Car Company.....	Long Island City, N. Y.
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Schacht.....	The LeBlond-Schacht Truck Company.....	Cincinnati, Ohio
Sterling.....	Sterling Motor Truck Company.....	Milwaukee, Wis.
Stewart.....	Stewart Motor Corporation.....	Buffalo, N. Y.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
Stutz Pak-Age-Car.....	Stutz Motor Car Co. of America, Inc.....	Indianapolis, Ind.
Terraplane.....	Hudson Motor Car Company.....	Detroit, Mich.
Walter.....	Walter Motor Truck Company.....	Ridgewood, N. Y.
White.....	The White Motor Company.....	Cleveland, Ohio
Willys.....	The Willys-Overland Company.....	Toledo, Ohio

Motor Bus Manufacturers

Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
G. M. C.....	General Motors Truck Corporation.....	Pontiac, Mich.
Indiana.....	The White Motor Company.....	Cleveland, Ohio
I. H. C.....	International Harvester Company.....	Chicago, Ill.
Mack.....	Mack Brothers Motor Car Company.....	New York, N. Y.
Pierce-Arrow.....	Pierce-Arrow Motor Corporation.....	Buffalo, N. Y.
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Stewart.....	Stewart Motor Corporation.....	Buffalo, N. Y.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
White.....	The White Motor Company.....	Cleveland, Ohio

Trailer Manufacturers

Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Diamond T.....	Diamond T Motor Car Company.....	Chicago, Ill.
G. M. C.....	General Motors Truck Corporation.....	Pontiac, Mich.
Mack.....	Mack Brothers Motor Car Company.....	Long Island City, N. Y.
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
White.....	The White Motor Company.....	Cleveland, Ohio

Organization of Automobile Manufacturers Association

A list of Directors and Officers is given on page two

ADVERTISING COMMITTEE

BYRON C. FOY, *Chairman*.....DeSoto Motor Corporation
JOHN M. HOWARD.....General Motors Truck Company
J. W. DINEEN.....General Motors Corporation
F. H. MCKINNEY.....Packard Motor Car Company
W. W. ROMAINE.....Plymouth Motor Corporation
STEPHEN D. BRYCE, JR., *Secretary*

EXPORT COMMITTEE

ROBERT C. GRAHAM, *Chairman*.....Graham-Paige Motors Corporation
B. C. BUDD.....Packard Motors Export Corporation
A. L. FRANK.....The Studebaker Export Corporation
ALLEN C. GERMANN.....Hudson Motor Car Company
W. LEDYARD MITCHELL.....Chrysler Export Corporation
J. D. MOONEY.....General Motors Export Company
L. P. THAYER.....International Harvester Company
GEORGE F. BAUER, *Secretary*

HIGHWAYS COMMITTEE

ALFRED H. SWAYNE, *Chairman*.....General Motors Corporation
A. EDWARD BARIT.....Hudson Motor Car Company
A. J. BROSEAU.....Mack Bros. Motor Car Company
ROBERT C. GRAHAM.....Graham-Paige Motors Corporation
PYKE JOHNSON, *Secretary*

INSURANCE COMMITTEE

MILTON TIBBETTS, *Chairman*.....Packard Motor Car Company
A. C. ANDERSON.....General Motors Corporation
ANDREW HOOD.....Hudson Motor Car Company
GEORGE L. BROWN.....Reo Motor Car Company
R. P. FOHEY.....Chrysler Corporation
A. G. RUMPF.....The Studebaker Corporation
J. S. MARVIN, *Secretary*

LEGISLATIVE COMMITTEE

C. J. JOLLY, *Chairman*.....General Motors Corporation
W. H. BREARLEY.....The Autocar Company
D. C. FENNER.....Mack Bros. Motor Car Company
R. P. FOHEY.....Chrysler Corporation
MILTON TIBBETTS.....Packard Motor Car Company
HARRY MEIXELL, *Secretary*

MANUFACTURERS COMMITTEE

WILLIAM S. KNUDSEN, *Chairman*.....General Motors Corporation
E. F. FISHER.....Fisher Body Corporation
E. R. HARRELL.....Graham-Paige Motors Corporation
K. T. KELLER.....Chrysler Corporation
G. T. CHRISTOPHER.....Packard Motor Car Company
IRA B. SWEGLES.....Hudson Motor Car Company
WILLIAM J. CRONIN, *Secretary*

MOTOR TRUCK COMMITTEE

A. J. BROSEAU, *Chairman*.....Mack Bros. Motor Car Company
I. B. BABCOCK.....General Motors Truck Company
R. F. BLACK.....The White Motor Company
J. D. BURKE.....Dodge Brothers Corporation
F. E. EVANS.....Chevrolet Motor Company
WILLIAM F. MCAFEE.....International Harvester Company
ROBERT P. PAGE, JR.....The Autocar Company
ELIJAH G. FOXSON.....Reo Motor Car Company
MARTIN L. PULCHER.....Federal Motor Truck Company
ARTHUR C. BUTLER, *Secretary*

(Continued on following page)

Organization of Automobile Manufacturers Association

(Continued from preceding page)

PATENTS COMMITTEE

F. J. HAYNES, *Chairman*.....Detroit, Michigan
J. KING HARNESS.....Chrysler Corporation
JAMES McEVoy.....General Motors Corporation
H. S. VANCE.....The Studebaker Corporation
GEORGE C. ARVEDSON, *Department Manager*

SAFETY TRAFFIC COMMITTEE

PAUL G. HOFFMAN, *Chairman*.....The Studebaker Corporation
LEE J. EASTMAN.....Packard Motor Car Company
R. P. FOHEY.....Chrysler Corporation
PAUL W. GARRETT.....General Motors Corporation
ROBERT P. PAGE, JR.....The Autocar Company
NORMAN DAMON, *Secretary*

SALES MANAGERS COMMITTEE

R. H. GRANT, *Chairman*.....General Motors Corporation
W. R. TRACY.....Hudson Motor Car Company
C. H. BLISS.....The Nash Motors Company
J. E. FIELDS.....Chrysler Corporation
M. M. GILMAN.....Packard Motor Car Company
PAUL G. HOFFMAN.....The Studebaker Corporation
J. W. DINEEN, *Secretary*

SHOW COMMITTEE

ALFRED H. SWAYNE, *Chairman*.....General Motors Corporation
BYRON C. FOY.....DeSoto Motor Corporation
PAUL G. HOFFMAN.....The Studebaker Corporation
ALFRED REEVES, *Show Manager*

TRADE PROMOTION COMMITTEE

ALFRED P. SLOAN, JR., *Chairman*.....General Motors Corporation
A. EDWARD BARIT.....Hudson Motor Car Company
WALTER P. CHRYSLER.....Chrysler Corporation
PAUL G. HOFFMAN.....The Studebaker Corporation
ALVAN MACAULEY.....Packard Motor Car Company
CHARLES W. NASH.....The Nash Motors Company

TRAFFIC COMMITTEE

ALFRED H. SWAYNE, *Chairman*.....General Motors Corporation
WALTER P. CHRYSLER.....Chrysler Corporation
ROBERT C. GRAHAM.....Graham-Paige Motors Corporation
J. S. MARVIN, *Department Manager*

REPRESENTATIVE ON HIGHWAY EDUCATION BOARD

ALFRED H. SWAYNE.....General Motors Corporation

REPRESENTATIVES ON NATIONAL INDUSTRIAL CONFERENCE BOARD

A. J. BROSSAU.....Mack Bros. Motor Car Company
ALFRED H. SWAYNE.....General Motors Corporation

INFORMATION DEPARTMENT

STEPHEN D. BRYCE, JR., *Manager*

DETROIT OFFICE

KENNETH A. MOORE

STATISTICAL DEPARTMENT

O. P. PEARSON, *Manager*

WASHINGTON OFFICE

PYKE JOHNSON

Associations of the Automobile Industry

AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.

GENERAL OFFICES: 366 Madison Avenue, New York, N. Y.; branches: General Motors Building, Detroit, Mich., and Transportation Building, Washington, D. C.

PRESIDENT: Alvan Macauley, President, Packard Motor Car Company.

VICE PRESIDENT AND GENERAL MANAGER: Alfred Reeves.

The Automobile Manufacturers Association, which is the organization through which the motor vehicle manufacturers of the United States cooperate on matters of common interest, was organized in 1913 under the name of the National Automobile Chamber of Commerce (name changed to present one in 1934). The Association is the successor of the National Association of Automobile Manufacturers, the Automobile Board of Trade and the Association of Licensed Automobile Manufacturers.

OBJECT: To represent the manufacturers of motor vehicles in all matters where cooperative activity is proper, efficient and economical and to serve as the clearing house for research and information on all subjects relating to highway transportation.

The scope of the Association's work is indicated by the following list of some of its current activities:

ACTIVITIES:

Administers the Cross-Licensing Agreements program under which members have pooled 1700 patents for use by other members without payment of royalty. This activity was designated in the 1930 American Trade Association Executives award competition as the most outstanding service performed by any trade association.

Through a comprehensive Employment Stabilization program, is seeking to reduce seasonal fluctuations in the industry's operations, thus making possible more regular and continuous employment with greater annual earnings for workers.

Conducts researches on all subjects relating to the manufacture, sale and operation of motor vehicles including: markets; factory employment; legislation; safety; highway construction and finance; foreign trade; commercial highway transportation; taxation; rail, highway and ocean freight traffic; and patents.

Manages the National Automobile Show in New York.

Publishes "Automobile Facts and Figures," "Motor Truck Facts" and other special literature dealing with various phases of highway transportation.

Is conducting a comprehensive nationwide program for the promotion of greater traffic safety.

Maintains the most complete automotive library in existence for use of members.

Studies rail and steamship transportation rates and service and seeks to develop maximum efficiency and economy in the movement of automotive freight.

Aids in promoting sound and equitable legislative principles relating to highway transportation.

Encourages the development of highway facilities throughout the world on a sound economic basis.

Upon invitation, sends representatives to foreign countries to aid in the development of highway transportation.

Maintains regional information offices in Detroit and Washington.

Members of the Association classified according to numbers of makes of vehicles produced are grouped as follows: passenger cars, 24; motor trucks, 21; taxicabs, 2; buses, 10; special vehicles such as fire apparatus, ambulances and funeral cars, 12.

American Automobile Association

NATIONAL HEADQUARTERS: Pennsylvania Avenue at 17th Street, N. W., Washington, D. C.

PRESIDENT: Thos. P. Henry, 41 Burroughs Avenue, Detroit, Mich.

GENERAL MANAGER: Russell E. Singer.

The world's largest motor federation—composed of 800 motor clubs and approximately 750,000 members. It is a national civic body, operating without personal profit and officered by responsible business and professional men.

OBJECTS: Its objects, briefly stated, are:

To unite in one body all the automobile clubs and individual motorists in the country.

To secure reasonable and just legislation and to aid in proper enforcement of automobile laws and ordinances.

To secure the construction and maintenance of a system of highways adequate to the needs of motor transport.

To encourage travel by automobile, bus, steamship and air, and to secure, prepare, and disseminate information relative thereto.

To support sportsmanlike contests and other movements that will advance motoring interests.

To develop service to motorists through clubs.

To promote highway safety by motorists and pedestrians, and to develop it among children through safety lessons and school boy patrols.

To facilitate touring by Americans in foreign countries, furnish customs papers, driving licenses and necessary documents.

Associations of the Automobile Industry (Continued)

American Motorists Association

ADMINISTRATIVE OFFICES: 1643 Connecticut Avenue, N. W., Washington, D. C.

PRESIDENT: J. Borton Weeks, 260 North Broad St., Philadelphia, Pa.

GENERAL MANAGER: Thomas J. Keefe, 1643 Connecticut Avenue, N. W., Washington, D. C.

A non-profit service organization. Membership nearly 300,000.

OBJECTS are to aid in the organization and maintenance of automobile associations and clubs to promote the welfare of motorists; to compile and distribute information on touring, roads and laws; to promote good roads, safety on the highway, in short, any and all activities in the interest of motorists.

American Trucking Associations, Inc.

GENERAL OFFICES: 1039 Investment Building, Washington, D. C.

PRESIDENT: Ted V. Rodgers.

MANAGER: John V. Lawrence.

The American Trucking Associations, Inc., organized in Washington in September, 1933, is composed of 65 regional, state and local motor truck associations, representing throughout the country ownership, by all types of operators, in excess of 500,000 trucks. It is a federation of associations, operating without profit and officered by truck operators for the purpose of promoting the best interests of the Trucking Industry.

It is the recognized national spokesman for the Trucking Industry and contacts regularly all Federal departments in which arise matters pertaining to trucking and other forms of transportation.

Automotive Electric Association

GENERAL OFFICES: 800 Michigan Theatre Building, Detroit, Mich.

PRESIDENT: Hugh H. C. Weed, Carter Carburetor Corporation, St. Louis, Mo.

EXECUTIVE SECRETARY: A. R. Sandt, 800 Michigan Theatre Building, Detroit, Mich.

An international association of manufacturers, distributors and authorized service stations organized to safeguard and promote the welfare of specialized service in the automotive industry.

Automotive Parts and Equipment Manufacturers, Incorporated

GENERAL OFFICES: 800 Michigan Theatre Building, Detroit, Mich.

PRESIDENT: C. C. Carlton, Motor Wheel Corporation, Lansing, Mich.

EXECUTIVE SECRETARY: Clarence O. Skinner, 800 Michigan Theatre Building, Detroit, Mich.

A national association of manufacturers of automotive parts and equipment. Has seven divisions: Original Equipment, Replacement Parts, Accessories, Shop Equipment, Service Tools, Electrical Equipment, and Internal Combustion Engines.

Maintains statistical and legal departments and engages in all activities for the promotion and protection of the best interests of Industry, through cooperation among the members and otherwise.

Automotive Trade Association Managers

GENERAL OFFICES: Inquirer Building, 400 N. Broad St., Philadelphia, Pa.

PRESIDENT: Herbert Buckman.

VICE-PRESIDENT: H. H. Stuart.

SECRETARY-TREASURER: W. P. Berrien.

A National Association composed of managers of state and local automobile dealer associations, and of automobile shows sponsored by these local organizations.

Motor and Equipment Manufacturers Association

EXECUTIVE HEADQUARTERS: Fisk Building, 250 West 57th Street, New York.

PRESIDENT: Frederick G. Wacker, President, Automotive Maintenance Machinery Co., 2100 Commonwealth Avenue, North Chicago, Ill.

GENERAL MANAGER: Albert H. Eichholz, Fisk Bldg., New York, N. Y.

National organization, functioning since 1904, representing interests of manufacturers of original equipment, replacement parts, accessories, shop equipment, service tools, and chemicals for the automobile, automotive, aircraft and marine fields. Maintains credit, export, sales development, trade and national shows, legislation and group activities departments.

Motor and Equipment Wholesalers Association

EXECUTIVE HEADQUARTERS: Daily News Bldg., 400 W. Madison St., Chicago, Ill.

PRESIDENT: W. F. Wilkerson, The Wyoming Automotive Co., Casper, Wyoming.

GENERAL MANAGER: B. W. Ruark, 400 W. Madison St., Chicago, Ill.

National organization representing interests of automotive jobbers, distributing merchandise generally as follows: Parts, equipment, accessories, and supplies in the automotive, aircraft and marine line.

Maintains an information bureau for members and disseminates information pertinent to operations of the automotive jobbing industry.

Conducts Collection Service, Adjustment Bureau, Merchandise Exchange Department, and Interchange of Members' Experiences Department.

Through regional association groups correlates jobber opinion on matters of trade interest and conducts a continuous national information distribution service through means of regional key line distribution charts.

Motor Vehicle Conference Committee

OFFICES: 366 Madison Avenue, New York City.

CHAIRMAN: D. C. Fenner.

SECRETARY: Harry Meixell.

Organized in 1919, is composed of representatives from the following organizations: American Automobile Association, Motor and Equipment Manufacturers Association, National Association of Motor Bus Operators, Automobile Manufacturers Association, National Automobile Dealers Association, Rubber Manufacturers Association, Inc., and the Society of Automotive Engineers.

This Committee acts as a clearing house for the legislative problems which, in increasing numbers, are confronting the individual members of its component organizations.

(Association list continued on following page)

Associations of the Automobile Industry (Continued)

National Automobile Dealers Association

GENERAL OFFICES: 634 N. Grand Boulevard, St. Louis, Mo.

PRESIDENT AND GENERAL MANAGER: E. M. Lied, Omaha, Neb.

ASSISTANT TO PRESIDENT: Arnon N. Benson, St. Louis, Mo.

TREASURER: L. M. Stewart, St. Louis, Mo.

SECRETARY: Herman Wangelin, Belleville, Ill.

OBJECT is promotion of automobile dealer business, constructive publicity on dealer aims, maintenance of high merchandising standards, research on selling opportunities of the business, study of markets and dissemination of facts concerning the same, opposition to harmful legislation, support of good legislation, promotion of good roads.

National Association of Sales Finance Companies

GENERAL OFFICES: 360 N. Michigan Avenue, Chicago, Ill.

PRESIDENT: Glenn B. Ryman, Atlanta, Ga.

EXECUTIVE VICE-PRESIDENT: John R. Walker.

SECRETARY: Milan V. Ayres.

A national organization representing automotive financing and insuring interests along the following lines; Advocates sound credit terms. Defends installment selling. Opposes vicious state and national legislation and promotes desirable legislation. Distributes valuable data in the shape of educational, legal, statistical, and trade bulletins and briefs. Secures material reduction in cost of essential services used by members. Arranges for interchange of service between members in collection and credit work and location of seized and embezzled motor vehicles.

National Association of Motor Bus Operators

PRESIDENT: A. M. Hill, 1100 Kanawha Valley Bldg., Charleston, W. Va.

VICE-PRESIDENT: E. W. Wakelee, 80 Park Place, Newark, N. J.

SECRETARY-MANAGER: John M. Meighan, 823 Tower Building, Washington, D. C.

Membership in the National Association of Motor Bus Operators is open to all operators of motor buses, to state associations of motor bus operators, and to manufacturers, distributors and other persons, firms, or corporations having dealings of a general nature with operator members of the Association.

All activities that promote the welfare and prosperity of motor bus operators and of the bus industry as a whole are within the scope of the Association's program. These include national, state and municipal legislation, important litigation, the collection and dissemination of bus operating cost and tax data, and the distribution to the public of facts on the economy and convenience of bus travel.

National Association of Taxicab Owners

HEADQUARTERS: 500 North Dearborn Street, Chicago, Ill.

PRESIDENT: Col. R. L. Hubler, Dayton, Ohio.

SECRETARY: J. G. Williams, Chicago, Ill.

PURPOSES

To afford our members a medium of cooperation. To collect and disseminate information that promotes the economical conduct of the taxicab business.

To establish and maintain cordial relations with the public.

To strive for safety on the highways.

National Highway Users Conference

HEADQUARTERS: National Press Building, Washington, D. C.

CHAIRMAN: Alfred P. Sloan, Jr., President, General Motors Corporation, New York, N. Y.

VICE-CHAIRMAN: Thomas P. Henry, President, American Automobile Association.

SECRETARY-TREASURER: L. J. Taber, Master, The National Grange.

DIRECTOR: Roy F. Britton, National Press Bldg., Washington, D. C.

Encourages the development of equitable policies of taxation for the use of public highways and endeavors to prevent imposition of unjust burdens upon highway traffic.

Serves as a clearing house for information on proposed national, state and municipal legislation affecting motor vehicle taxation and regulation and highway construction.

National Standard Parts Association

GENERAL OFFICES: 1420 United Artists Building, Detroit, Mich.

PRESIDENT: J. P. Muller, Fort Worth Wheel and Rim Co., Fort Worth, Texas.

EXECUTIVE VICE-PRESIDENT: E. P. Chalfant, 1420 United Artists Building, Detroit, Mich.

MEMBERSHIP comprises corporations, firms or persons engaged in manufacturing and/or jobbing standard brands of automotive service parts, materials, shop tools and equipment.

OBJECTS: The objects of the Association are to promote an enlarged acquaintance and a more friendly intercourse among its members and in all reasonable, lawful and proper ways to promote the best interests of the automotive service parts trade.

The Rubber Manufacturers Association, Incorporated

GENERAL OFFICES: 444 Madison Avenue, New York City.

CHAIRMAN OF THE BOARD: A. F. Townsend, Raybestos-Manhattan, Inc.

PRESIDENT AND GENERAL MANAGER: A. L. Viles.

SECRETARY: R. H. Goebel.

A national trade organization embracing rubber manufacturers of the United States.

Its membership consists of 150 firms, and its object is to promote in all lawful ways the commercial interests of its members, and secure the advantages to be obtained through mutual co-operation, also to stimulate social intercourse among those connected with the rubber industry and commerce and in general for the promotion of the welfare of the rubber industry.

Society of Automotive Engineers, Inc.

GENERAL OFFICES: 29 W. 39th St., New York City.

PRESIDENT: K. R. Tector, Hagerstown, Ind.

SEC'Y AND GEN'L MANAGER: John A. C. Warner.

OBJECT of the Society is to promote the arts, sciences, standards, and engineering practices connected with the design, construction and utilization of automotive apparatus, all forms of self-propelled or mechanically propelled mediums for the transportation of passengers or freight, and internal combustion prime-movers. Publications are: Transactions (annual); S. A. E. Membership Roster (annual); The S. A. E. Journal (monthly); and S. A. E. Handbook, Standards and Recommended Practices (published annually).

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